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## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<p>(54) Title: PYRAZOLE INHIBITORS OF CYTOKINE PRODUCTION</p>		
<p>(57) Abstract</p> <p>Compounds having formula (I) are useful for treating diseases that are prevented by or ameliorated with Interleukin-2, Interleukin-4, or Interleukin-5 production inhibitors.</p> <div style="text-align: center;"> <p style="text-align: right;">(I)</p> </div>		

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## PYRAZOLE INHIBITORS OF CYTOKINE PRODUCTION

5

### Technical Field

The present invention relates to organic compounds and compositions that are cytokine synthesis inhibitors, processes for making such compounds, synthetic intermediates  
10 employed in these processes, and methods for inhibiting cytokine production in a mammal.

### Background of The Invention

Therapeutic control of the immune system is the goal of many approaches toward the treatment of autoimmune diseases that differ in organ specific involvement, pathogenic  
15 cofactors, response to treatment and prognosis. They range from diseases with "spontaneous" onset such as rheumatoid arthritis to rejection reactions after allograft organ transplantation.

Interleukin 2 (IL-2), a lymphokine produced by activated T-cells, is a key regulator of immune and inflammatory responses. It promotes T cell proliferation *in vitro* and differentiation of B cells, activated macrophages, NK cells and LAK cells. The central  
20 importance of IL-2 in initiating adaptive immune responses such as the rejection of tissue grafts is well-illustrated by drugs that are most commonly used to suppress undesirable effects such as the rejection of tissue grafts. The drugs cyclosporin A and FK506 inhibit IL-2 production by disrupting signalling initiated through the T-cell receptor. The drug rapamycin also inhibits signalling through the T cell receptor. Cyclosporin A and rapamycin act  
25 synergistically to inhibit immune responses by preventing the IL-2 driven clonal expansion of T cells (Brazelton and Morris, Current Opinion in Immunology 8, 710 (1996)).

Compounds of this invention, due to their ability to inhibit IL-2 production, can be anticipated to demonstrate therapeutic efficacy in disease states where IL-2 is a key orchestrator of the immune response such as rheumatoid arthritis, atopic dermatitis, psoriasis  
30 and the rejection of tissue grafts.

Increased local elaboration of the Th2-type cytokines Interleukin-5 (IL-5) and Interleukin-4 (IL-4) has clearly been implicated in the pathogenesis of atopic asthma (Am. J.Respir. Crit. Care Med. 154, 1497 (1996)). IL-5 has selective biologic effects on eosinophils and their precursors and may regulate selective accumulation of these cells in the asthmatic



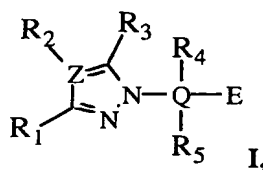
bronchial mucosa. IL-4 is an essential co-factor for IgE switching in B-lymphocytes and is therefore likely to be involved in situations where there is inappropriate IgE synthesis.

Compounds of this invention inhibit the production of both IL-4 and IL-5 and can be expected to exhibit efficacy in atopic diseases where the aforementioned cytokines play a prominent

5 role in disease pathophysiology.

### Summary of The Invention

In its principle embodiment, the present invention provides a compound represented by Formula I



10 or a pharmaceutically acceptable salt or prodrug thereof, where  $\text{R}_1$  and  $\text{R}_3$  are independently selected from

- (1) hydrogen,
- (2) aryl,
- 15 (3) perfluoroalkyl of one to fifteen carbons,
- (4) halo,
- (5) -CN,
- (6) -NO<sub>2</sub>,
- (7) -OH,
- 20 (8) -OG where G is a hydroxyl protecting group,
- (9) -CO<sub>2</sub>R<sub>6</sub> where R<sub>6</sub> is selected from
  - (a) hydrogen,
  - (b) cycloalkyl of three to twelve carbons,
  - (c) aryl,
  - 25 (d) aryl substituted with 1, 2, 3, 4, or 5 substituents independently selected from
    - (i) alkyl of one to fifteen carbons,
    - (ii) alkoxy of one to fifteen carbons,
    - (iii) thioalkoxy of one to fifteen carbons,
    - 30 (iv) halo,
    - (v) -NO<sub>2</sub>, and

- (vi)  $-N_3$ ,
  - (e) a carboxy protecting group,
  - (f) alkyl of one to fifteen carbons,
  - (g) alkyl of one to fifteen carbons substituted with 1, 2, or 3, or 4  
 5 substituents independently selected from
    - (i) alkoxy of one to fifteen carbons,
    - (ii) thioalkoxy of one to fifteen carbons,
    - (iii) aryl,
    - (iv) aryl substituted with 1, 2, 3, 4, or 5 substituents  
 10 independently selected from
      - alkyl of one to fifteen carbons,
      - alkoxy of one to fifteen carbons,
      - thioalkoxy of one to fifteen carbons,
      - halo,
      - 15  $-NO_2$ , and
      - $-N_3$ ,
    - (v) cycloalkyl of three to twelve carbons, and
    - (vi) halo,
  - (h) alkenyl of three to fifteen carbons,  
 20 provided that a carbon of a carbon-carbon double bond is not  
 attached directly to oxygen,
  - (i) alkynyl of three to fifteen carbons,  
 provided that a carbon of a carbon-carbon triple bond is not  
 attached directly to oxygen, and
  - (j) cycloalkyl of three to twelve carbons,
  - (10)  $-L_1NR_7R_8$  where  $L_1$  is selected from
    - (a) a covalent bond,
    - (b)  $-X'C(X)-$  where X and X' are independently O or S,
    - (c)  $-C(X)-$ , and
    - (d)  $-NR_6-$  and
- $R_7$  and  $R_8$  are independently selected from
- (a) hydrogen,
  - (b) alkanoyl where the alkyl part is one to fifteen carbons,
  - (c) alkoxycarbonyl where the alkyl part is one to fifteen carbons,

- (d) alkoxycarbonyl where the alkyl part is one to fifteen carbons and is substituted with 1 or 2 substituents selected from the group consisting of aryl,
- (e) cycloalkyl of three to twelve carbons,
- 5 (f) aryl,
- (g) aryl substituted with 1, 2, 3, 4, or 5 substituents independently selected from
- (i) alkyl of one to fifteen carbons,
- (ii) alkoxy of one to fifteen carbons,
- 10 (iii) thioalkoxy of one to fifteen carbons,
- (iv) halo,
- (v) -NO<sub>2</sub>, and
- (vi) -N<sub>3</sub>,
- (h) -OR<sub>6</sub>,
- 15 provided that only one of R<sub>7</sub> or R<sub>8</sub> is -OR<sub>6</sub>,
- (i) a nitrogen protecting group,
- (j) alkyl of one to fifteen carbons,
- (k) alkyl of one to fifteen carbons substituted with 1, 2, or 3, or 4 substituents independently selected from
- 20 (i) alkoxy of one to fifteen carbons,
- (ii) thioalkoxy of one to fifteen carbons,
- (iii) aryl,
- (iv) aryl substituted with 1, 2, 3, 4, or 5 substituents independently selected from
- 25 alkyl of one to fifteen carbons,
- alkoxy of one to fifteen carbons,
- thioalkoxy of one to fifteen carbons,
- halo,
- NO<sub>2</sub>, and
- 30 -N<sub>3</sub>,
- (v) cycloalkyl of three to fifteen carbons,
- (vi) halo,
- (vii) -CO<sub>2</sub>R<sub>6</sub>, and
- (viii) -OH,

- (l) alkenyl of three to fifteen carbons,  
provided that a carbon of a carbon-carbon double bond is not  
attached directly to nitrogen,
- (m) alkynyl of three to fifteen carbons,  
provided that a carbon of a carbon-carbon triple bond is not  
attached directly to nitrogen,
- (n) -SO<sub>2</sub>-alkyl, and
- (o) cycloalkyl of three to twelve carbons, or  
R<sub>7</sub> and R<sub>8</sub> together with the nitrogen atom to which they are attached  
form a ring selected from
- (i) aziridine,
  - (ii) azetidine,
  - (iii) pyrrolidine,
  - (iv) piperidine,
  - (v) piperazine,
  - (vi) morpholine,
  - (vii) thiomorpholine, and
  - (viii) thiomorpholine sulfone
- where (i)-(viii) can be optionally substituted with 1, 2, or 3 substituents  
selected from the group consisting of alkyl of one to fifteen  
carbons,
- (11) -L<sub>2</sub>R<sub>9</sub> where L<sub>2</sub> is selected from
- (a) -L<sub>1</sub>-,
  - (b) -O-, and
  - (c) -S(O)<sub>t</sub>- where t is 0, 1, or 2 and  
R<sub>9</sub> is selected from
- (a) cycloalkyl of three to twelve carbons,
  - (b) aryl
  - (c) aryl substituted with 1, 2, 3, 4, or 5 substituents independently  
selected from
- (i) alkyl of one to fifteen carbons,
  - (ii) alkoxy of one to fifteen carbons,
  - (iii) thioalkoxy of one to fifteen carbons,
  - (iv) halo,

- (v) -NO<sub>2</sub>, and  
(vi) -N<sub>3</sub>,  
(d) alkyl of one to fifteen carbons,  
(e) heterocycle,  
5 (f) alkenyl of two to fifteen carbons, and  
(e) alkyl of one to fifteen carbons substituted with 1, 2, or 3, or 4  
substituents independently selected from  
(i) alkenyl of two to fifteen carbons,  
(ii) alkoxy of one to fifteen carbons,  
10 (iii) -CN,  
(iv) -CO<sub>2</sub>R<sub>6</sub>,  
(v) -OH,  
provided that no two -OH groups are attached to the  
same carbon,  
15 (vi) thioalkoxy of one to fifteen carbons,  
(vii) alkynyl of two to fifteen carbons,  
(viii) aryl,  
(ix) aryl substituted with 1, 2, 3, 4, or 5 substituents  
independently selected from  
20 alkyl of one to fifteen carbons,  
alkoxy of one to fifteen carbons,  
thioalkoxy of one to fifteen carbons,  
halo,  
-NO<sub>2</sub>, and  
25 -N<sub>3</sub>,  
(x) cycloalkyl of three to twelve carbons, and  
(xi) halo,  
(xii) -NR<sub>7</sub>R<sub>8</sub>,  
(xiii) heterocycle, and  
30 (xiv) heterocycle substituted with 1, 2, or 3, or 4 substituents  
independently selected from  
alkyl of one to fifteen carbons,  
alkoxy of one to fifteen carbons,  
thioalkoxy of one to fifteen carbons,

halo,  
 -NO<sub>2</sub>, and  
 -N<sub>3</sub>,

- (12) alkyl of one to fifteen carbons substituted with 1, 2, 3, 4, or 5 halo substituents,  
 5 (13) alkyl of one to fifteen carbons,  
 (14) alkenyl of two to fifteen carbons,  
 (15) alkynyl of two to fifteen carbons  
 where (13)-(15) can be optionally substituted with
- (a) (=X),  
 10 (b) alkanoyloxy where the alkyl part is one to fifteen carbons,  
 (c) alkoxy of one to fifteen carbons,  
 (d) alkoxy of one to fifteen carbons substituted with 1, 2, 3, 4, or 5 substituents  
 selected from the group consisting of halo,  
 15 (e) thioalkoxy of one to fifteen carbons,  
 (f) perfluoroalkoxy of one to fifteen carbons,  
 (g) -N<sub>3</sub>,  
 (h) -NO<sub>2</sub>,  
 (i) -CN,  
 (j) -OH,  
 20 (k) -OG  
 (l) cycloalkyl of three to twelve carbons,  
 (m) halo,  
 (n) -CO<sub>2</sub>R<sub>6</sub>,  
 (o) -L<sub>1</sub>NR<sub>7</sub>R<sub>8</sub>, and  
 25 (p) -L<sub>2</sub>R<sub>9</sub>,  
 (16) -L<sub>2</sub>-heterocycle, and  
 (17) -L<sub>2</sub>-heterocycle where the heterocycle is substituted with 1, 2, 3 or 4  
 substituents independently selected from
- (a) alkyl of one to fifteen carbons,  
 30 (b) perfluoroalkyl of one to fifteen carbons,  
 (c) alkoxy of one to fifteen carbons,  
 (d) thioalkoxy of one to fifteen carbons,  
 (e) halo, and  
 (f) -NO<sub>2</sub>,

(18)  $-\text{NR}_X\text{C}(\text{O})\text{NR}_Y\text{R}_Z$  where  $\text{R}_X$ ,  $\text{R}_Y$  and  $\text{R}_Z$  are independently selected from

- (a) hydrogen and
- (b) alkyl of one to fifteen carbons,

(19)  $-\text{C}(=\text{NR}_X)\text{NR}_Y\text{R}_Z$ ,

(20)  $-\text{NR}_X\text{C}(=\text{NR}_{X'})\text{NR}_Y\text{R}_Z$  where  $\text{R}_X$ ,  $\text{R}_Y$  and  $\text{R}_Z$  are defined previously and  $\text{R}_{X'}$  is selected from

- (a) hydrogen and
- (b) alkyl of one to fifteen carbons,

(21)  $-\text{NR}_X\text{C}(\text{O})\text{OR}_W$ , where  $\text{R}_W$  is selected from

- (a) alkyl of one to fifteen carbons and
  - (b) alkenyl of three to fifteen carbons,
- provided that a carbon of a carbon-carbon double bond is not attached directly to oxygen, and

(22)  $-\text{OC}(\text{O})\text{NR}_7\text{R}_8$ ;

**Z** is nitrogen or carbon;

**R<sub>2</sub>** is absent or is selected from

(1) hydrogen,

(2)  $-\text{CO}_2\text{R}_6$ ,

(3) alkyl of one to fifteen carbons,

(4)  $-\text{C}(\text{O})\text{R}_6'$  where  $\text{R}_6'$  is selected from

- (a) alkyl of one to fifteen carbons,
- (b) aryl, and
- (c) heterocycle,

(5)  $-\text{C}(\text{O})\text{NR}_7'\text{R}_8'$  where  $\text{R}_7'$  and  $\text{R}_8'$  are independently selected from

- (a) hydrogen,
- (b) alkyl of one to fifteen carbons, or

$\text{R}_7'$  and  $\text{R}_8'$  together with the nitrogen to which they are attached form a ring selected from

- (i) piperidine,
- (ii) piperazine,
- (iii) morpholine,
- (iv) thiomorpholine, and

- (v) thiomorpholine sulfone
- (6) perfluoroalkyl of one to fifteen carbons,
- (7) cycloalkyl of three to ten carbons,
- (8) alkyl of one to fifteen carbons substituted with 1, 2, 3, 4, or 5 substituents  
 5 selected from the group consisting of halo,
- (9) alkyl of one to fifteen carbons substituted with
- (a) -CN,
- (b) -OH,  
 provided that no two -OH groups are attached to the same carbon,
- 10 (c) (=X), and
- (d) -CO<sub>2</sub>R<sub>6</sub>, and
- (10) halogen;  
 provided that when X is nitrogen, R<sub>2</sub> is absent;
- 15 **Q** is aryl or heterocycle where, when **Q** is phenyl, the phenyl is 2-, 3-, or 4- substituted  
 by **E** relative to the position of attachment of the pyrazole or 1,2,4-triazole ring  
 to the phenyl ring;
- R<sub>4</sub>** and **R<sub>5</sub>** are independently selected from
- 20 (1) hydrogen,
- (2) alkyl of one to fifteen carbons,
- (3) alkyl of one to fifteen carbons substituted with 1, 2, 3, 4, or 5 halo substituents,
- (4) alkyl of one to fifteen carbons substituted with
- (a) -CN,
- 25 (b) -CO<sub>2</sub>R<sub>6</sub>,
- (c) -L<sub>1</sub>NR<sub>7</sub>R<sub>8</sub>, and
- (d) -L<sub>2</sub>R<sub>9</sub>,
- (5) perfluoroalkyl of one to fifteen carbons,
- (6) -CN,
- 30 (7) -CO<sub>2</sub>R<sub>6</sub>,
- (8) -L<sub>1</sub>NR<sub>7</sub>R<sub>8</sub>,
- (9) -L<sub>2</sub>R<sub>9</sub>,
- (10) alkoxy of one to fifteen carbons,
- (11) thioalkoxy of one to fifteen carbons,



- (12) halo,
- (13)  $-C(=NR_6)NR_7R_8$ ,
- (14)  $-NR_{12}(=NR_6)NR_7R_8$  where  $R_6$ ,  $R_7$ , and  $R_8$  are defined previously and  $R_{12}$  is selected from
- (a) hydrogen,
  - (b) cycloalkyl of three to twelve carbons,
  - (c) aryl,
  - (d) alkyl of one to fifteen carbons, and
  - (e) alkyl of one to fifteen carbons substituted with 1, 2, or 3, or 4 substituents independently selected from
    - (i) alkenyl of two to fifteen carbons,
    - (ii) alkoxy of one to fifteen carbons,
    - (iii) thioalkoxy of one to fifteen carbons,
    - (iv) alkynyl of two to fifteen carbons, and
    - (v) aryl,
- (15)  $-L_2$ -heterocycle, and
- (16)  $-L_2$ -heterocycle where the heterocycle is substituted with 1, 2, 3, or 4 substituents independently selected from
- (a) alkyl of one to fifteen carbons,
  - (b) perfluoroalkyl of one to fifteen carbons,
  - (c) alkoxy of one to fifteen carbons,
  - (d) thioalkoxy of one to fifteen carbons,
  - (e) halo,
  - (f)  $-N_3$ , and
  - (g)  $-NO_2$ ;

**E is**

- (1)  $-L_3-B$  where  $L_3$  is selected from
- (a) a covalent bond,
  - (b) alkenylene of two to six carbons in the Z or E configuration,
  - (c) alkynylene of two to six carbons,
  - (d)  $-C(X)-$ ,
  - (e)  $-N=N-$ ,
  - (f)  $-NR_7-$ ,

- (g)  $-N(R_7)C(O)N(R_8)-$ ,
- (h)  $-N(R_7)SO_2N(R_8)-$ ,
- (i)  $-X-$ ,
- (j)  $-(CH_2)_mO-$ ,
- (k)  $-O(CH_2)_m-$ ,
- (l)  $-N(R_7)C(X)-$ ,
- (m)  $-C(X)N(R_7)-$ ,
- (n)  $-S(O)_t(CH_2)_m-$ ,
- (o)  $-(CH_2)_mS(O)_t-$ ,
- (p)  $-NR_7(CH_2)_m-$ ,
- (q)  $-(CH_2)_mNR_7-$ ,
- (r)  $-NR_7S(O)_t-$ ,
- (s)  $-S(O)_tNR_7-$ ,
- (t)  $-N=C(H)-$ ,
- (u)  $-C(H)=N-$ ,
- (v)  $-ON=CH-$ ,
- (w)  $-CH=NO-$

where (g)-(w) are drawn with their left ends attached to Q,

- (x)  $-N(R_7)C(O)N(R_{10})(R_{11})-$  where  $R_{10}$  and  $R_{11}$  together with the nitrogen atom to which they are attached form a ring selected from

- (i) morpholine,
- (ii) thiomorpholine,
- (iii) thiomorpholine sulfone, and
- (iv) piperidine

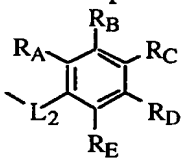
where (i)-(iv) are attached to Q through the nitrogen to which is attached  $R_7$  and to B through a carbon in the ring,

- (y)  $-N(R_7)SO_2N(R_{10})(R_{11})-$ , and
- (z)  $-N(R_7)C(O)N(R_{10})(R_{11})-$  and

B is selected from

- (a) alkyl of one to fifteen carbons,
- (b) alkenyl of three to fifteen carbons in the E or Z configuration, provided that a carbon of a carbon-carbon double bond is not directly attached to  $L_3$  when  $L_3$  is other than a covalent bond,
- (c) alkynyl of three to fifteen carbons,

provided that a carbon of a carbon-carbon triple bond is not directly attached to  $L_3$  when  $L_3$  is other than a covalent bond where (a), (b) and (c), can be optionally substituted with 1, 2, 3, or 4 substituents independently selected from



- (i) where  $L_2$  is defined previously and  $R_A$ ,  $R_B$ ,  $R_C$ ,  $R_D$ , and  $R_E$  are independently selected from hydrogen, alkanoyl where the alkyl part is one to fifteen carbons, alkanoyloxy where the alkyl part is one to fifteen carbons, alkoxy of one to fifteen carbons, thioalkoxy of one to fifteen carbons, alkoxy of one to fifteen carbons substituted with 1, 2, 3, 4, or 5 substituents selected from the group consisting of halo, perfluoroalkyl of one to fifteen carbons, perfluoroalkoxy of one to fifteen carbons,  $-N_3$ ,  $-NO_2$ ,  $-CN$ ,  $-OH$ ,  $-OG$ , cycloalkyl of three to fifteen carbons, halo,  $-CO_2R_6$ ,  $-L_1NR_7R_8$ ,  $-L_2R_9$ , alkyl of one to fifteen carbons, alkyl of one to fifteen carbons substituted with 1, 2, 3, 4, or 5 substituents independently selected from  $(=X)$ ,

alkanoyloxy where the alkyl part is one to fifteen  
 carbons,  
 alkoxy of one to fifteen carbons,  
 thioalkoxy of one to fifteen carbons,  
 5 alkoxy of one to fifteen carbons substituted with  
 1, 2, 3, 4, or 5 halo substituents,  
 perfluoroalkoxy of one to fifteen carbons,  
 -N<sub>3</sub>,  
 -NO<sub>2</sub>,  
 10 -CN,  
 -OH,  
 provided that no two -OH groups are attached to  
 the same carbon,  
 -OG,  
 15 cycloalkyl of three to fifteen carbons,  
 halo,  
 -CO<sub>2</sub>R<sub>6</sub>,  
 -L<sub>1</sub>NR<sub>7</sub>R<sub>8</sub>, and  
 -L<sub>2</sub>R<sub>9</sub>,  
 20 -L<sub>2</sub>-heterocycle, and  
 -L<sub>2</sub>-heterocycle where the heterocycle is substituted  
 with  
 1, 2, 3, or 4 substituents independently  
 selected from  
 25 alkyl of one to fifteen carbons,  
 perfluoroalkyl of one to fifteen carbons,  
 alkoxy of one to fifteen carbons,  
 thioalkoxy of one to fifteen carbons,  
 halo,  
 30 -NR<sub>X</sub>C(O)NR<sub>Y</sub>R<sub>Z</sub>,  
 -C(=NR<sub>X</sub>)R<sub>Y</sub>R<sub>Z</sub>,  
 -NO<sub>2</sub>, and  
 -N<sub>3</sub>,

(ii) (=X)

- (iii) alkanoyloxy where the alkyl part is one to fifteen carbons,
- (iv) alkoxy of one to fifteen carbons,
- (v) alkoxy of one to fifteen carbons substituted with 1, 2, 3, 4, or 5  
substituents selected from the group consisting of halo,
- 5 (vi) thioalkoxy of one to fifteen carbons,
- (vii) perfluoroalkoxy of one to fifteen carbons,
- (viii) -N<sub>3</sub>,
- (ix) -NO<sub>2</sub>,
- (x) -CN,
- 10 (xi) -OH,
- provided that no two -OH groups are attached to the same  
carbon,
- (xii) -OG,
- (xiii) cycloalkyl of three to fifteen carbons,
- 15 (xiv) halo,
- (xv) -CO<sub>2</sub>R<sub>6</sub>,
- (xvi) -L<sub>1</sub>NR<sub>7</sub>R<sub>8</sub>,
- (xvii) perfluoroalkyl of one to fifteen carbons,
- (xviii) -L<sub>2</sub>-heterocycle, and
- 20 (xix) -L<sub>2</sub>-heterocycle where the heterocycle is substituted with 1, 2,  
3, or 4 substituents independently selected from  
(=X),  
alkanoyl where the alkyl part is one to fifteen carbons,  
alkanoyloxy where the alkyl part is one to fifteen  
25 carbons,  
alkoxy of one to fifteen carbons,  
alkoxy of one to fifteen carbons substituted with 1, 2, 3,  
4, or 5 substituents selected from the group  
consisting of halo ,
- 30 thioalkoxy of one to fifteen carbons,  
perfluoroalkyl of one to fifteen carbons,  
perfluoroalkoxy of one to fifteen carbons,  
-N<sub>3</sub>,  
-NO<sub>2</sub>,

-CN,

-OH,

provided that no two -OH groups are attached to the  
same carbon,

-OG,

cycloalkyl of three to fifteen carbons,

halo,

-CO<sub>2</sub>R<sub>6</sub>,

-L<sub>1</sub>NR<sub>7</sub>R<sub>8</sub>, and

-L<sub>2</sub>R<sub>9</sub>,

(d) cycloalkyl of three to twelve carbons,

(e) cycloalkenyl of four to twelve carbons,

provided that a carbon of a carbon-carbon-double bond is not attached  
directly to L<sub>3</sub> when L<sub>3</sub> is other than a covalent bond

where (d) and (e) can be optionally substituted with 1, 2, 3, 4, or 5 substituents  
independently selected from

(i) alkyl of one to fifteen carbons,

(ii) aryl,

(iii) alkoxy of one to fifteen carbons,

(iv) thioalkoxy of one to fifteen carbons,

(v) halo,

(vi) -OH,

provided that no two -OH groups are attached to the same  
carbon,

(vii) oxo,

(viii) perfluoroalkyl,

(ix) heterocycle, and

(x) heterocycle substituted with 1, 2, 3, 4, or 5 substituents

independently selected from

alkyl of one to fifteen carbons,

perfluoroalkyl of one to fifteen carbons,

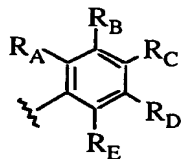
alkoxy of one to fifteen carbons,

thioalkoxy of one to fifteen carbons,

halo,

-NO<sub>2</sub>, and

-N<sub>3</sub>,



(f)

provided that when R<sub>1</sub> and R<sub>3</sub> are both perfluoroalkyl of one carbon, Z is carbon, R<sub>2</sub> is hydrogen, Q is phenyl that is 4-substituted by E relative to the position of attachment of the pyrazole ring to the phenyl group, R<sub>4</sub> and R<sub>5</sub> are hydrogen, E is -L<sub>3</sub>-B, L<sub>3</sub> is -N(R<sub>7</sub>)C(X)-, R<sub>7</sub> is hydrogen, X is oxygen, and R<sub>A</sub>, R<sub>B</sub>, R<sub>D</sub>, and R<sub>E</sub> are hydrogen, R<sub>C</sub> is other than chloro, and

(g) heterocycle where the heterocycle can be optionally substituted with 1, 2, 3, or 4 substituents independently selected from

(i) (=X),

(ii) alkanoyl where the alkyl part is one to fifteen carbons,

(iii) alkanoyloxy where the alkyl part is one to fifteen carbons,

(iv) alkoxy of one to fifteen carbons,

(v) alkoxy of one to fifteen carbons substituted with 1, 2, 3, 4, or 5 substituents selected from the group consisting of halo,

(vi) halo,

(vii) thioalkoxy of one to fifteen carbons,

(viii) perfluoroalkyl of one to fifteen carbons,

(ix) perfluoroalkoxy of one to fifteen carbons,

(x) -N<sub>3</sub>,

(xi) -NO<sub>2</sub>,

(xii) -CN,

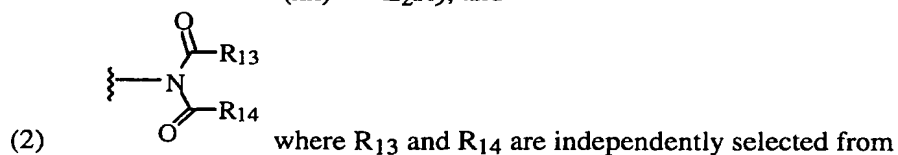
(xiii) -OH,

provided that no two -OH groups are attached to the same carbon,

(xiv) -OG,

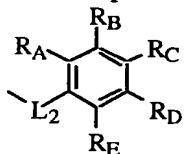
(xv) cycloalkyl of three to fifteen carbons,

- (xvi) halo,
- (xvii)  $-\text{CO}_2\text{R}_6$ ,
- (xviii) alkyl optionally substituted with  $-\text{OH}$ ,
- (xix)  $-\text{L}_1\text{NR}_7\text{R}_8$ , and
- (xx)  $-\text{L}_2\text{R}_9$ , and



- (a) hydrogen,
- (b) alkyl of one to fifteen carbons,
- (c) alkenyl of three to fifteen carbons in the E or Z configuration,  
provided that a carbon of a carbon-carbon double bond is not attached  
directly to the  $\text{C}(=\text{O})$  group,
- (d) alkynyl of three to fifteen carbons,  
provided that a carbon-carbon triple bond is not directly attached to  
the  $\text{C}(=\text{O})$  group

where (b), (c), and (d) can be optionally substituted with 1, 2, 3, or 4  
substituents independently selected from



- (i)
- (ii)  $(=\text{X})$ ,
- (iii) alkanoyloxy where the alkyl part is one to fifteen carbons,
- (iv) alkoxy of one to fifteen carbons,
- (v) alkoxy of one to fifteen carbons substituted with 1, 2, 3, 4, or 5  
substituents selected from the group consisting of halo,
- (vi) thioalkoxy of one to fifteen carbons,
- (vii) perfluoroalkoxy of one to fifteen carbons,
- (viii)  $-\text{N}_3$ ,
- (ix)  $-\text{NO}_2$ ,
- (x)  $-\text{CN}$ ,
- (xi)  $-\text{OH}$ ,



provided that no two -OH groups are attached to the same carbon,

(xii) -OG,

(xiii) cycloalkyl of three to fifteen carbons,

(xiv) halo,

(xv) -CO<sub>2</sub>R<sub>6</sub>,

(xvi) -L<sub>1</sub>NR<sub>7</sub>R<sub>8</sub>,

(xvii) perfluoroalkyl of one to fifteen carbons,

(xviii) -L<sub>2</sub>-heterocycle, and

(xix) -L<sub>2</sub>-heterocycle where the heterocycle is substituted with 1, 2,

3, or 4 substituents independently selected from

(=X),

alkanoyl where the alkyl part is one to fifteen carbons,

alkanoyloxy where the alkyl part is one to fifteen carbons,

alkoxy of one to fifteen carbons,

alkoxy of one to fifteen carbons substituted with 1, 2, 3,

4, or 5 substituents selected from the group

consisting of halo,

thioalkoxy of one to fifteen carbons,

perfluoroalkyl of one to fifteen carbons,

perfluoroalkoxy of one to fifteen carbons,

-N<sub>3</sub>,

-NO<sub>2</sub>,

-CN,

-OH,

provided that no two -OH groups are attached to the same carbon,

-OG,

cycloalkyl of three to fifteen carbons,

halo,

-CO<sub>2</sub>R<sub>6</sub>,

-L<sub>1</sub>NR<sub>7</sub>R<sub>8</sub>,

-L<sub>2</sub>R<sub>9</sub>,

(e) cycloalkyl of three to twelve carbons,

- (f) cycloalkenyl of four to twelve carbons,  
provided that a carbon of a carbon-carbon double bond is not attached  
directly to the C(=O) group

where (e) and (f) can be optionally substituted with 1, 2, 3, 4, or 5 substituents  
independently selected from

- (i) alkyl of one to fifteen carbons,
- (ii) aryl,
- (iii) alkoxy of one to fifteen carbons,
- (iv) thioalkoxy of one to fifteen carbons,
- (v) halo,
- (vi) -OH,

provided that no two -OH groups are attached to the same  
carbon,

- (vii) heterocycle, and

- (viii) heterocycle substituted with 1, 2, 3, 4, or 5 substituents  
independently selected from

alkyl of one to fifteen carbons,  
perfluoroalkyl of one to fifteen carbons,  
alkoxy of one to fifteen carbons,  
thioalkoxy of one to fifteen carbons,  
halo,  
-NO<sub>2</sub>, and  
-N<sub>3</sub>,

- (g) heterocycle, and

- (h) heterocycle substituted with 1, 2, 3, or 4 substituents independently  
selected from

- (i) (=X),
- (ii) alkanoyl where the alkyl part is one to fifteen carbons,
- (iii) alkanoyloxy where the alkyl part is one to fifteen  
carbons,
- (iv) alkoxy of one to fifteen carbons,
- (v) alkoxy of one to fifteen carbons substituted with 1, 2, 3,  
4, or 5 substituents selected from the group  
consisting of halo,

- (vi) thioalkoxy of one to fifteen carbons,
- (vii) perfluoroalkyl of one to fifteen carbons,
- (viii) perfluoroalkoxy of one to fifteen carbons,
- (ix)  $-N_3$ ,
- (x)  $-NO_2$ ,
- (xi)  $-CN$ ,
- (xii)  $-OH$ ,

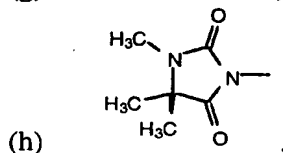
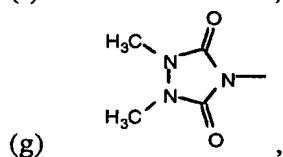
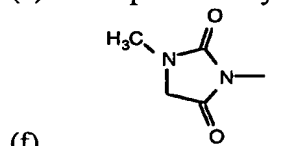
provided that no two  $-OH$  groups are attached to the same carbon,

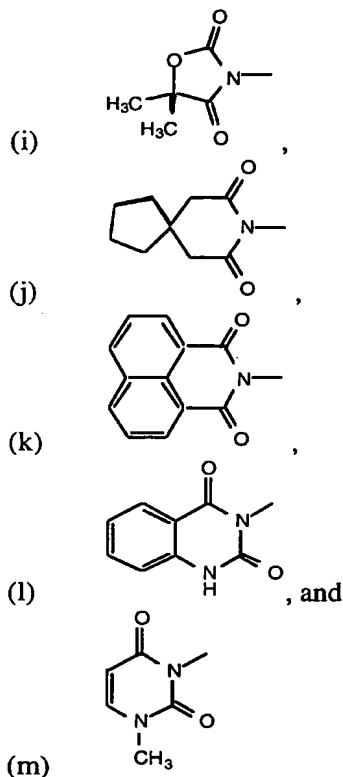
- (xiii)  $-OG$ ,
- (xiv) cycloalkyl of three to fifteen carbons,
- (xv) halo,
- (xvi)  $-CO_2R_6$ ,
- (xvii)  $-L_1NR_7R_8$ ,
- (xviii)  $-L_2R_9$ ,

provided that at least one of  $R_{13}$  and  $R_{14}$  is other than hydrogen, or  $R_{13}$  and  $R_{14}$  together with the nitrogen to which they are attached form a ring

selected from

- (a) succinimidyl,
- (b) maleimidyl,
- (c) glutarimidyl,
- (d) phthalimidyl,
- (e) naphthalimidyl,





where (a)-(m) can be optionally substituted with 1, 2, 3, 4, or 5 substituents selected from

halo and

-L<sub>2</sub>R<sub>9</sub>.

In another embodiment, the present invention also relates to a method of inhibiting Interleukin-2, Interleukin-4, and Interleukin-5 production in a mammal comprising administering a therapeutically effective amount of a compound of Formula I.

In yet another embodiment, the present invention also relates to a method of treating immunologically-mediated diseases in a mammal comprising administering a therapeutically effective amount of a compound of Formula I.

In still yet another embodiment, the present invention relates to pharmaceutical compositions which comprise a therapeutically effective amount of a compound of Formula I in combination with a pharmaceutically acceptable carrier.

Compounds of the invention include but are not limited to

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]cyclopropanecarboxamide,

- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,2,3,3-tetramethylcyclopropane-carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,2-dichloro-1-methylcyclopropanecarboxamide,  
5 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-oxo-6-pentyl-2H-pyran-3-carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3,5-difluorobenzenesulfonamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-cyclohexene-1-  
10 carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-methylcyclopropanecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-(3,5-dichlorophenoxy)-2-furancarboxamide,  
15 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-methyl-2-cyclohexene-1-carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-cyclopentene-1-carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-methoxycyclohexane-  
20 carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-butyramide,  
ethyl 3-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]carbonyl]-amino]benzoate,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-furancarboxamide,  
25 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-methyl-3-nitrobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(3-cyanophenyl)urea,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-hydroxycyclopropanecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]cycloheptanecarboxamide,  
30 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-benzofurancarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-fluoro-1H-indole-2-carboxamide,  
(E)-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-(2-chlorophenyl)-2-propenamide,

- 2-benzoyl-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide,  
 3a(S)-(3 $\alpha$ ,4 $\beta$ ,6 $\alpha$ )-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]hexahydro-2-oxo-1H-thieno[3,4-d]imidazole-4-pentanamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-iodobenzamide,  
 5      exo-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]bicyclo[2.2.1]hept-5-ene-2-carboxamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-methylcyclohexane-carboxamide,  
 phenylmethyl [1-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]-  
 10      carbonyl]propyl]carbamate,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-cyclohexene-1-carboxamide,  
 4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(4-fluorophenyl)benzamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(3-nitrophenyl)urea,  
 15      N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(4-fluorophenyl)urea,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-[4-(trifluoromethyl)-phenyl]urea,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(3,5-dimethylphenyl)urea,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-  
 20      methylcyclopropanecarboxamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-phenylurea,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(3-chloro-2-methylphenyl)urea,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-[4-(butyloxyphenyl)urea,  
 25      N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(2-methyl-3-nitrophenyl)urea,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(2-chloro-4-nitrophenyl)urea,  
 N-(4-acetylphenyl)-N'-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]urea,  
 30      N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(4-methyl-2-nitrophenyl)urea,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-methyl-2-thiophene-carboxamide,

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(4-bromo-2,6-dimethyl-phenyl)urea,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-(1H-pyrrol-1-yl)benzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-heptylurea,  
5 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(4-chloro-2-nitro-phenyl)urea,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-7-methoxy-2-benzofurancarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-2-methyl-5-nitrophen-  
10 yl)urea,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-(hydroxymethyl)benzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-cyanoacetamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-cyclohexane-1-carboxamide,  
15 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-methylcyclohexanecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]- $\alpha$ -methoxy- $\alpha$ -(trifluoromethyl)benzeneacetamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]heptanamide,  
20 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-phenoxybenzamide,  
3-amino-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide,  
4-amino-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide,  
4-azido-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-2-thiopheneacetamide,  
25 N-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-tricyclo[3.3.1.<sup>1,3,7</sup>]decane-carboximide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N<sup>2</sup>-[(1,1-dimethylethoxy)-carbonyl]-L-asparagine, phenylmethyl ester,  
1,1-dimethylethyl [7-[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]-7-oxoheptyl]carbamate,  
30 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-(methylthio)propanamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-naphthylencarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-cyanobenzamide,

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-phenylcyclopropane-carboxamide,

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-iodobenzamide,

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-chloropropanamide,

5 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-methoxybenzamide,

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-ethylhexanamide,

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-hydroxybenzamide,

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-(hexyloxy)benzamide,

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-methylbenzamide,

10 2-(acetyloxy)-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide,

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(4-bromo-2-

methylphenyl)urea,

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4,6-trimethylbenzamide,

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(4-chloro-3-

15 nitrophenyl)urea,

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-N-methylbenzamide,

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-4-nitro-N-

methylbenzamide,

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-

20 chlorobenzenemethanamine,

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-methyl-5-nitro-1H-pyrazole-4-carboxamide,

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-fluorobenzenemethanamine,

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-bromobenzamide,

25 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-(dimethylamino)benzamide,

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-(dimethylamino)benzamide,

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-(trifluoromethyl)benzamide,

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-fluorobenzamide,

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chlorobenzamide,

30 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide,

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-nitrobenzamide,

4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(4-fluorophenyl)benzenemethanamine,

3-[4-[[[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]methyl]amino]benzonitrile,

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-methylbenzamide,



- (E)-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenylmethylene]-2,4-difluorobenzenamine,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3,4-dimethoxybenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]cyclopentanepropanamide,
- 5 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-methylbenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-(trifluoromethyl)benzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-methyl-2-butenamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-hydroxybenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-hydroxybenzamide,
- 10 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4-dimethyl-5-thiazolecarboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-pyridinecarboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-(hydroxymethyl)benzamide,
- 4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(2,4-difluorophenyl)benzenemethanamine,
- 15 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-(methylsulfonyl)benzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-iodobenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-heptylbenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-furancarboxamide,
- 20 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-fluorobenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-methyl-1,2-benzenedicarboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-pyridinecarboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-chloro-2-nitrobenzamide,
- 25 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-cinnolinecarboxamide,
- 4-acetyl-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide,
- 1,1-dimethylethyl 4-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-amino]carbonyl]-1-piperidinecarboxylate,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-pyridinecarboxamide,
- 30 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-(diethylamino)benzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]cyclopentanecarboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]cyclohexanecarboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-piperidinecarboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-(methylsulfonyl)benzamide,

- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-(trifluoromethyl)benzamide,  
3-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]methyl]amino]benzonitrile,  
methyl 3-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]carbonyl]benzoate,
- 5 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-chlorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-thiophenecarboxamide,  
(E)-3-[2-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]ethenyl]benzonitrile,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1,4-benzenedicarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3,5-dinitrobenzamide,
- 10 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4-difluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-nitrobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-cyanobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1,3-benzenedicarboxamide,  
(Z)-3-[2-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]ethenyl]benzonitrile,
- 15 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-nitrobenzamide,  
3-(aminosulfonyl)-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide,  
methyl 4-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]carbonyl]benzoate,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-methoxybenzamide,
- 20 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-bromobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-methoxybenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-fluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-bromobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1,3-benzodioxole-5-
- 25 carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,6-dichloro-3-pyridinecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-3-pyridinecarboxamide,
- 30 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-6-methyl-3-pyridinecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-fluoro-γ-oxobenzenebutanamide,

- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1,2,3,4-tetrahydro-2-naphthalenecarboxamide,  
(E)-1-[4-[2-(2-chlorophenyl)ethenyl]phenyl]-3,5-bis(trifluoromethyl)-1H-pyrazole,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-(4-chlorophenoxy)-2-methylpropanamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]acetamide,  
4-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]carbonyl]benzoic acid,  
phenylmethyl N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]-4-oxobutyl]carbamate,  
3-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]carbonyl]benzoic acid,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,6-difluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-bromo-2-thiophenecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-methyl-2-thiophenecarboxamide,  
2-amino-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-fluoro-3-pyridinecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-chloro-4-(methylsulfonyl)-2-thiophenecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1H-pyrrole-2-carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3,6-dichloro-2-pyridinecarboxamide  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-(2-nitrophenoxy)acetamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-chlorobenzeneacetamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1H-indole-2-acetamide,  
(E)-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-(2-thienyl)-2-propenamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]pyrazinecarboxamide,  
1,1-dimethylethyl [[4-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]-4-oxobutyl]carbamate,  
1-acetyl-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-piperidinecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]butanamide,

- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-chloro-2-methoxybenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]- $\alpha$ -methyl-4-(2-thienyl-carbonyl)benzeneacetamide,
- 5 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]- $\alpha$ -methyl-4-(2-thienyl carbonyl)benzeneacetamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-methoxy-4-(methythio)benzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-hydroxy-3-nitrobenzamide,
- 10 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3,4-dihydroxybenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-hydroxy-6-methoxybenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4-bis(trifluoromethyl)benzamide,
- 15 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-methyl-4-isoxazolecarboxamide,
- 4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(2-chlorophenyl)benzamide,
- 4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(3-cyanophenyl)benzamide,
- 4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(2,4-difluorophenyl)benzamide,
- 20 4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(2-cyanophenyl)benzamide,
- N-[4-[5-[3,5-dimethyl-1H-1,2,4-triazol-1-yl]-3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-isoxazolecarboxamide,
- 4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(2-nitrophenyl)benzamide,
- 4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(2,6-difluorophenyl)benzamide,
- 25 4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(2-bromophenyl)benzamide,
- 4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(4-cyanophenyl)benzamide,
- 4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(4-pyridinyl)benzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-fluoro-3-(trifluoromethyl)benzamide,
- 30 N-[2-(aminocarbonyl)phenyl]-4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]benzamide,
- N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-chlorobenzeneacetamide,
- N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,3-dichlorobenzamide,
- N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-5-nitrobenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-fluoro-3-nitrobenzamide,

- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-fluoro-3-nitrobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-fluoro-2-(trifluoromethyl)-  
benzamide,  
N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-fluorobenzamide,  
5 N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4-difluorobenzamide,  
N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-cyanobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-bromo-3-nitrobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-4-fluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-4-(methylsulfonyl)-  
10 benzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,5-dichlorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,3-difluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-chloro-4-fluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,5-difluorobenzamide,  
15 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-6-fluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-fluoro-6-(trifluoromethyl)-  
benzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-chloro-2-fluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-4-  
20 methoxybenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,6-dichloro-3-  
nitrobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-bromo-2-chlorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3,4-difluorobenzamide,  
25 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-bromo-5-  
methoxybenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-chloro-2-  
hydroxybenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-bromo-4-  
30 methoxybenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-bromo-4-  
hydroxybenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-4,5-  
difluorobenzamide,

- N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,6-difluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-chloro-2,5-  
difluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,3,4-trifluorobenzamide,  
5 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3,4,5-trifluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4,5-trifluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4,6-trifluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,6-difluoro-3-  
nitrobenzamide,  
10 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,3,5-trifluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4-dichloro-6-  
fluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4-dichloro-3,5-  
dinitrobenzamide,  
15 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,3,5,6-tetrafluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,3,4,5-tetrafluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-bromo-2,3,5,6-  
tetrafluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-methyl-2-nitrobenzamide,  
20 N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-cyanobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-thiophenecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-isoxazolecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]tetrahydro-2-  
furancarboxamide,  
25 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-pyrrolidinecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]tetrahydro-3-  
furancarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1,2,3-thiadiazole-5-  
carboxamide,  
30 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-4-  
pyridinecarboxamide,  
1,1-dimethylethyl 2-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-  
yl]phenyl]amino]carbonyl]-1-pyrrolidinecarboxylate,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-nitro-2-furancarboxamide,

- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-methyl-1H-pyrrole-2-carboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-6-chloro-3-pyridinecarboxamide,
- 5 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-bromo-2-furancarboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-methyl-2-furancarboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-chloro-2-thiophenecarboxamide,
- 10 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]tetrahydro-5-oxo-2-furan-carboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-oxo-2-pyrrolidinecarboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-bromo-3-pyridinecarboxamide,
- 15 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-nitro-3-thiophenecarboxamide,
- 1,1-dimethylethyl 4-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]-carbonyl]-3-thiazolidinecarboxylate,
- 20 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-methoxy-3-thiophenecarboxamide,
- N-[2-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-5-pyridinyl]-2-chlorobenzamide,
- N-[2-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-5-pyridinyl]-3-cyanobenzamide,
- N-[2-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-5-pyridinyl]-2-chloro-4,5-difluorobenzamide,
- 25 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,3-dibromo-5-thiophenecarboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-fluoro-4-pyridinecarboxamide,
- 30 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-methyl-1H-pyrazole-4-carboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-chloro-4-methoxy-3-thiophenecarboxamide,

- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5,6-dichloro-3-pyridinecarboxamide
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,6-dichloro-4-pyridinecarboxamide,
- 5 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,5-dichloro-3-pyridinecarboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-3-(trifluoromethyl)phenyl]-4-chlorobenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-2-fluorophenyl]-2,4-
- 10 difluorobenzamide,
- N-[2,4-bis[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4-difluorobenzamide,
- methyl 2-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-5-[(5-bromo-2-chlorobenzoyl)amino]benzoate,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-3-(trifluoromethyl)phenyl]-3,5-
- 15 dimethyl-4-isoxazolecarboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-3-(trifluoromethyl)phenyl]-4-methyl-1,2,3-thiadiazole-5-carboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-3-chlorophenyl]-3,5-dimethyl-4-isoxazolecarboxamide,
- 20 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-2-(trifluoromethyl)phenyl]-3,5-dimethyl-4-isoxazolecarboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-2-methylphenyl]-4-methyl-1,2,3-thiadiazole-5-carboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-2-methoxyphenyl]-4-methyl-1,2,3-
- 25 thiadiazole-5-carboxamide,
- 4-chloro-N-[4-[5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide,
- 4-methyl-N-[4-[5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1,2,3-thiadiazole-5-carboxamide,
- 3,5-dimethyl-N-[4-[5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-
- 30 isoxazolecarboxamide,
- 4-chloro-N-[4-(5-methyl-1H-pyrazol-1-yl)phenyl]benzamide,
- 4-methyl-N-[4-(5-methyl-1H-pyrazol-1-yl)phenyl]-1,2,3-thiadiazole-5-carboxamide,
- 3,5-dimethyl-N-[4-(5-methyl-1H-pyrazol-1-yl)phenyl]-4-isoxazolecarboxamide,



- 3,5-dimethyl-N-[4-[3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-isoxazolecarboxamide,
- N-[4-[5-hydroxy-3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-methyl-1,2,3-thiadiazole-5-carboxamide,
- 5 N-[4-[5-(3,5-dimethyl-1H-1,2,4-triazol-1-yl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1,2,3-thiadiazole-5-carboxamide,
- 3-amino-N-(4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,
- N-(4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-3-chloro-5-methoxyisonicotinamide,
- 10 N-(6-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)-3-pyridinyl)-2-fluorobenzamide, methyl 2-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)-5-((2-fluorobenzoyl)amino)benzoate,
- 4-(aminomethyl)-N-(4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-chlorobenzamide,
- 15 N-(4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-methylacrylamide, N-(4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-4-chloro-2-fluorobenzamide, N-(5-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)-2-pyridinyl)-2-fluorobenzamide, N-(3-amino-4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluorobenzamide, N-(4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)-3-cyanophenyl)-2-fluorobenzamide,
- 20 N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluorobenzamide, 2-fluoro-N-(4-(5-(2-furyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)benzamide, N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-4-methyl-1,2,3-thiadiazole-5-carboxamide,
- N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,
- 25 N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide, N-(4-(5-acetyl-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluorobenzamide, N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluoronicotinamide, N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2,3,5-trifluorobenzamide, 2-fluoro-N-(4-(5-(2-thienyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)benzamide,
- 30 2-fluoro-N-(4-(5-(methylsulfanyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)benzamide,
- 2-fluoro-N-(4-(5-(3-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)benzamide,

- 3-fluoro-N-(4-(5-(2-thienyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,  
N-(4-(5-methoxy-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,  
2-fluoro-N-(4-(5-methoxy-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)benzamide,  
5 N-(4-(5-methoxy-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-4-methyl-1,2,3-thiadiazole-5-carboxamide,  
N-(4-(5-acetyl-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluoronicotinamide,  
2-fluoro-N-(4-(5-(methylsulfanyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)nicotinamide,  
10 2-fluoro-N-(4-(5-methoxy-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)nicotinamide,  
N-(4-(5-ethoxy-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluoronicotinamide,  
3-fluoro-N-(4-(5-(methylsulfanyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,  
3-fluoro-N-(4-(5-methoxy-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,  
15 N-(4-(5-(difluoromethoxy)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,  
N-(4-(5-(difluoromethoxy)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-4-methyl-1,2,3-thiadiazole-5-carboxamide,  
20 N-(4-(5-(difluoromethoxy)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluoronicotinamide,  
N-(4-(5-chloro-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluoronicotinamide,  
2-fluoro-N-(4-(5-nitro-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)benzamide,  
N-(4-(5-(difluoromethoxy)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,  
25 N-(4-(5-chloro-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,  
N-(4-(5-bromo-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,  
3-fluoro-N-(4-(5-nitro-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,  
N-(4-(5-bromo-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-4-methyl-1,2,3-thiadiazole-5-carboxamide,  
30 5-carboxamide,  
N-(4-(5-chloro-3-(trifluoromethyl)-1H-1,2,4-triazol-1-yl)phenyl)-3-fluoroisonicotinamide,  
3-fluoro-N-(4-(5-(1-methyl-1H-pyrrol-3-yl)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,

- 3-chloro-N-(4-(5-chloro-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,  
 N-(4-(5-bromo-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2,3-difluorobenzamide,  
 N-(4-(5-bromo-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-3-chloroisonicotinamide,  
 2-chloro-N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)benzamide,  
 5 3-chloro-N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,  
 N-(4-(5-(difluoromethoxy)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-  
 fluorobenzamide,  
 2-chloro-N-(4-(5-(difluoromethoxy)-3-(trifluoromethyl)-1H-pyrazol-1-  
 yl)phenyl)benzamide,  
 10 N-(4-(5-(difluoromethoxy)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2,3-  
 difluorobenzamide,  
 3-fluoro-N-(4-(3-(4-pyridinyl)-5-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,  
 N-(4-(5-(difluoromethyl)-3-(3-pyridinyl)-1H-pyrazol-1-yl)phenyl)-3-  
 fluoroisonicotinamide,  
 15 N-(4-(5-cyano-3-(2-pyridinyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,  
 N-(4-(5-cyano-3-(3-pyridinyl)-1H-pyrazol-1-yl)phenyl)-4-methyl-1,2,3-thiadiazole-5-  
 carboxamide,  
 3-fluoro-N-(4-(5-nitro-3-(3-pyridinyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,  
 4-methyl-N-(4-(5-nitro-3-(3-pyridinyl)-1H-pyrazol-1-yl)phenyl)-1,2,3-thiadiazole-5-  
 20 carboxamide,  
 N-(4-(5-cyano-3-(1,3-thiazol-2-yl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,  
 N-(4-(3-(5-bromo-3-pyridinyl)-5-(difluoromethoxy)-1H-pyrazol-1-yl)phenyl)-3-  
 fluoroisonicotinamide,  
 N-(4-(5-cyano-3-(1,3-thiazol-2-yl)-1H-pyrazol-1-yl)phenyl)-4-methyl-1,2,3-  
 25 thiadiazole-5-carboxamide,  
 N-(4-(5-cyano-3-(1,3-thiazol-2-yl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,  
 4-methyl-N-(4-(3-(1,3-thiazol-2-yl)-5-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-  
 1,2,3-thiadiazole-5-carboxamide,  
 N-(4-(3-(2,4-dimethyl-1,3-thiazol-5-yl)-5-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-3-  
 30 fluoroisonicotinamide,  
 3-fluoro-N-(4-(3-tetrahydro-2-furanyl-5-(trifluoromethyl)-1H-pyrazol-1-  
 yl)phenyl)isonicotinamide,  
 N-(4-(5-chloro-3-(1,3-thiazol-2-yl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,

N-(4-(5-chloro-3-(3-furyl)-1H-pyrazol-1-yl)phenyl)-4-methyl-1,2,3-thiadiazole-5-carboxamide,

N-(4-(5-chloro-3-(3-furyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,

5 N-(4-(5-cyano-3-tetrahydro-2-furanyl-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,

N-(4-(5-(difluoromethoxy)-3-(1-methyl-1H-pyrrol-3-yl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,

N-(4-(5-(difluoromethoxy)-3-(3-furyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide, and

10 N-(4-(5-(difluoromethoxy)-3-(1-methyl-1H-pyrrol-2-yl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide.

### Detailed Description of the Invention

#### Definition of Terms

15 The term "alkanoyl" refers to an alkyl group attached to the parent molecular group through a carbonyl group.

The term "alkanoyloxy" refers to an alkanoyl group attached to the parent molecular group through an oxygen atom.

20 The term "alkenyl" refers to a monovalent straight or branched chain group derived from a hydrocarbon of two to fifteen carbons having at least one carbon-carbon double bond. The alkenyl groups of this invention can be optionally substituted.

The term "alkenylene" refers to a divalent straight or branched chain group derived from a hydrocarbon of two to fifteen carbons having at least one carbon-carbon double bond.

25 The term "alkoxy" refers to an alkyl group attached to the parent molecular group through an oxygen atom.

The term "alkyl" refers to a monovalent straight or branched chain group derived from an saturated hydrocarbon of one to fifteen carbons. The alkyl groups of this invention can be optionally substituted.

30 The term "alkylene" refers to a divalent group derived from a straight or branched chain saturated hydrocarbon of one to fifteen carbons.

The term "alkynyl" refers to a monovalent straight or branched chain group derived from a hydrocarbon of one to fifteen carbons having at least one carbon-carbon triple bond. The alkynyl groups of this invention can be optionally substituted.

The term "alkynylene" refers to a divalent group derived from a straight or branched

chain hydrocarbon of one to fifteen carbons having at least one carbon-carbon triple bond.

The term "amino" refers to  $\text{-NH}_2$ .

The term "amino protecting group" refers to groups intended to protect an amino group against undesirable reactions during synthetic procedures. Commonly used amino  
5 protecting groups are disclosed in Greene, "Protective Groups In Organic Synthesis," (John Wiley & Sons, New York (1981)), which is hereby incorporated by reference. Preferred N-protecting groups are formyl, acetyl, benzoyl, pivaloyl, t-butylacetyl, phenylsulfonyl, benzyl, t-butyloxycarbonyl (Boc), benzyloxycarbonyl (Cbz), and allylcarbonyloxy (Alloc).

The term "aryl" refers to a mono- or bicyclic carbocyclic ring system having at least  
10 one aromatic ring that can be optionally substituted. The aryl group can be fused to a cyclohexane, cyclohexene, cyclopentane or cyclopentene ring in which case the aryl group can be attached through the ring to which it is attached or through the aromatic ring itself.

The term "carboxy protecting group" refers to a carboxylic acid protecting ester or amide group typically employed to block or protect the carboxylic acid functionality while the  
15 reactions involving other functional sites of the compound are performed. Carboxy protecting groups are disclosed in Greene, "Protective Groups in Organic Synthesis". Additionally, a carboxy protecting group can be used as a prodrug whereby the carboxy protecting group can be readily cleaved *in vivo*, for example by enzymatic hydrolysis, to release the biologically active parent. Such carboxy protecting groups are well-known to those skilled in the art,  
20 having been extensively used in the protection of carboxyl groups in the penicillin and cephalosporin fields as described in U.S. Pat. Nos. 3,840,556 and 3,719,667 which are hereby incorporated by reference.

The term "cycloalkenyl" refers to a monovalent cyclic or bicyclic hydrocarbon of three to fifteen carbons having at least one carbon-carbon double bond. The cycloalkenyl groups of  
25 this invention can be optionally substituted.

The term "cycloalkyl" refers to a monovalent saturated cyclic or bicyclic hydrocarbon of three to fifteen carbons. The cycloalkyl groups of this invention can be optionally substituted.

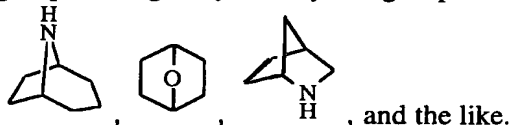
The term "halo" refers to F, Cl, Br, or I.

30 The terms "heterocycle," or "heterocyclic" refer to a 4-, 5-, 6- or 7-membered ring containing one, two or three heteroatoms independently selected from the group consisting of nitrogen, oxygen and sulfur. The 4- and 5-membered rings have 0, 1, or 2 double bonds and the 6- and 7-membered rings have 0, 1, 2, or 3 double bonds. The nitrogen and sulfur atoms can be optionally oxidized, and the nitrogen atom can be optionally quaternized. The term

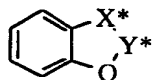
"heterocycle" also includes bicyclic, tricyclic, and tetracyclic groups in which a heterocyclic ring is fused to one or two rings selected from an aryl ring, a cyclohexane ring, a cyclohexene ring, a cyclopentane ring, a cyclopentene ring or another monocyclic heterocyclic ring.

Heterocycles of this type can be attached through the ring to which they are fused or through the heterocyclic ring itself. Heterocycles include, but are not limited to, acridinyl, benzimidazolyl, benzofuryl, benzothiazolyl, benzothienyl, benzoxazolyl, biotinyl, cinnolinyl, dihydrofuryl, dihydroindolyl, dihydropyranyl, dihydrothienyl, dithiazolyl, furyl, homopiperidinyl, imidazolidinyl, imidazolyl, imidazolyl, indolyl, isoquinolyl, isothiazolidinyl, isothiazolyl, isoxazolidinyl, isoxazolyl, morpholinyl, oxadiazolyl, oxazolidinyl, oxazolyl, piperazinyl, piperidinyl, pyranyl, pyrazolidinyl, pyrazinyl, pyrazolyl, pyrazolinyl, pyridazinyl, pyridyl, pyrimidinyl, pyrimidyl, pyrrolidinyl, pyrrolinyl, pyrrolyl, quinolinyl, quinoxaloyl, tetrahydrofuryl, tetrahydroisoquinolyl, tetrahydroquinolyl, tetrazolyl, thiadiazolyl, thiazolidinyl, thiazolyl, thienyl, thiomorpholinyl, triazolyl, and the like.

Heterocyclics also include bridged bicyclic groups where a monocyclic heterocyclic group is bridged by an alkylene group such as



Heterocyclics also include compounds of the formula



where  $X^*$  is selected from  $-CH_2-$ ,  $-CH_2O-$  and  $-O-$ , and  $Y^*$  is selected from  $-C(O)-$  and  $-(C(R''))_v-$ , where  $R''$  is hydrogen or alkyl of one to four carbons and  $v$  is 1, 2, or 3. The heterocycles of this invention can be optionally substituted.

The term "hydroxyl" refers to  $-OH$ .

The term "hydroxyl protecting group" refers to a protecting ester or ether group typically employed to block or protect the hydroxyl group while reactions involving other functional sites of the compound are performed. Hydroxyl protecting groups are disclosed in Greene, "Protective Groups In Organic Synthesis," (John Wiley & Sons, New York (1981)).

The term "perfluoroalkyl" refers to an alkyl group wherein all of the hydrogens have been substituted with fluorides.

The term "pharmaceutically acceptable prodrugs" refers to those prodrugs of the compounds of the present invention which are, within the scope of sound medical judgement, suitable for use in contact with the tissues of humans and lower mammals without undue

toxicity, irritation, and allergic response, are commensurate with a reasonable benefit/risk ratio, and are effective for their intended use, as well as the zwitterionic forms, where possible, of the compounds of the invention.

5 The term "prodrug" refers to compounds which are rapidly transformed *in vivo* to the parent compound of the above formula, for example, by hydrolysis in blood. A thorough discussion is provided in T. Higuchi and V. Stella, "Pro-drugs as Novel Delivery Systems, " Vol. 14 of the A.C.S. Symposium Series, and in Edward B. Roche, ed., "Bioreversible Carriers in Drug Design," American Pharmaceutical Association and Pergamon Press, 1987, both of which are hereby incorporated by reference.

10 The term "thioalkoxy" refers to an alkyl group attached to the parent molecular group through a sulfur atom.

Compounds of the present invention may exist as stereoisomers where asymmetric or chiral centers are present. The present invention contemplates various stereoisomers and mixtures thereof. Stereoisomers include enantiomers and diastereomers. Individual  
15 stereoisomers of compounds of the present invention can be prepared synthetically from commercially available starting materials which contain asymmetric or chiral centers or by preparation of racemic mixtures followed by resolution well-known to those of ordinary skill in the art. These methods of resolution are exemplified by (1) attachment of a mixture of enantiomers to a chiral auxiliary, separation of the resulting mixture of diastereomers by  
20 recrystallization or chromatography and liberation of the optically pure product from the auxiliary or (2) direct separation of the mixture of optical enantiomers on chiral chromatographic columns.

Geometric isomers may also exist in the compounds of the present invention. The present invention contemplates the various geometric isomers and mixtures thereof resulting  
25 from the arrangement of substituents around a carbon-carbon double bond or disposition of substituents around a ring. Substituents around a carbon-carbon double bond are designated as being in the Z or E configuration where the term "Z" refers to substituents on the same side of the carbon-carbon double bond and the term "E" refers to substituents on opposite sides of the carbon-carbon double bond.

30 Compounds of the present invention can exist as rotamers. Rotamers are formed from hinderance around an amide bond to provide 2 or more distinct compounds which can be separated by means well-known to those skilled in the art.

#### Determination of Biological Activity

### Cell and Culture Conditions

Human peripheral blood mononuclear cells were cultured in RPMI 1640 medium supplemented with 10 µg/ml gentamicin, 50 µM 2-mercaptoethanol, 1X MEM non-essential amino acids (Sigma Chemical Co., St. Louis, MO), 100 U/ml sodium penicillin G, 100 µg/ml streptomycin sulfate, 2 mM L-glutamine, 1 mM sodium pyruvate (Life Technologies, Grand Island, NY) and 10% fetal bovine serum (Hyclone, Logan, UT) at 37 °C with 5% CO<sub>2</sub>.

### Preparation of Human Peripheral Blood Mononuclear Cells

The procedure in Current Protocols in Immunology, Volume 1, Published by the Greene Publishing Associates and John Wiley & Sons, Inc, Edited by Richard Coico, 1994, hereby incorporated by reference, was followed. Briefly, 50 ml of blood from human volunteers was collected in heparinized syringes and mixed. Blood was diluted 1:1 in Dulbecco's phosphate buffered saline (D-PBS) (Life Technologies, Grand Island, NY) and mixed. PBS-blood mixture was overlaid into 50 ml centrifuge tubes containing 15 ml Histopaque 1077 (Sigma Chemical Co., St. Louis, MO) and centrifuged at 500 X G for 30 minutes at room temperature. Cells at the interface from each Histopaque tube were removed and mixed with 5 ml of D-PBS. Each cell suspension was diluted to 50 ml with D-PBS, mixed and centrifuged at 400 X G for 15 minutes at room temperature. After most of the supernatant was removed, cells were resuspended to 40 ml with D-PBS per tube (2 tubes per donor). Cells were centrifuged at 400 X G for 10 minutes at room temperature. Pellets were resuspended in 10 ml of supplemented RPMI 1640 and cell number determined with a Coulter counter. Cells were diluted to a concentration of 0.5 X 10<sup>6</sup> cells per mL.

### Human Concanavalin-A Proliferation Assay (Con HU Assay)

The procedure in Current Protocols in Immunology, Volume 1, Published by the Greene Publishing Associates and John Wiley & Sons, Inc, Edited by Richard Coico, 1994, hereby incorporated by reference, was followed. Briefly, test compounds were added to appropriate wells on 96-well tissue culture plates (Corning Glass Works, Corning, NY) in 20 µl of supplemented RPMI 1640. Human peripheral blood mononuclear cells were added to each well in 100 µl volumes (final cell concentration equal to 50,000 cells per well). After 15 minutes, 100 µl of 5 µg/ml concanavalin-A (Sigma Chemical Co., St. Louis, MO) in supplemented RPMI 1640 was added to a final concentration of 2.5 µg/ml. Plates were incubated for 3 days at 37° C with 5% CO<sub>2</sub>. On day 3, plates were pulsed with 0.5 µCi/well tritiated thymidine (New England Nuclear, Boston, MA). After 6 hours, plates were harvested



on a Tomtec 96-well harvester (Orange, CT). Glass filter mats were counted on a Matrix 9600 direct beta counter (Packard, Meriden, CT).

Table 1

5 Inhibitory Potency of Representative Compounds in the Human Concanavalin-A Proliferation

Assay (Con HU)

Example Number	% Inhibition of proliferation (at concentrations of 1, 10, or 100 $\mu$ M)	Con HU IC <sub>50</sub> (nM)
1	68 (1)	-
2	1 (1)	-
3	100 (10)	328
4	82 (100)	28806
5	100 (100)	33666
6	100 (10)	98
7	97 (10)	403
9	35 (1)	-
10	100 (10)	114
11	100 (10)	376
12	98 (10)	427
13	99 (100)	2843
14	97 (100)	538
15	99 (100)	274
16	100 (100)	4186
17	18 (1)	-
18	100 (100)	374
19	9 (1)	-
20	10 (1)	-
21	2 (1)	-
22	14 (1)	-
23	4 (1)	-
24	98 (100)	301

25	100 (10)	396
26	24 (1)	-
27	100 (10)	299
28	12 (1)	-
29	100 (10)	51
30	6 (1)	-
31	100 (100)	4038
32	100 (100)	8436
35	65 (1)	-
40	36 (1)	-
41	100 (10)	343
42	9 (1)	-
43	98 (10)	354
44	29 (1)	-
45	18 (1)	-
46	10 (1)	-
48	85 (1)	468
49	9 (1)	-
50	2 (1)	-
51	100 (10)	778
52	26 (1)	-
53	99 (100)	202
54	12 (1)	-
55	13 (1)	-
56	32 (1)	-
57	5 (1)	-
58	97 (10)	484
59	54 (1)	-
60	100 (100)	296
65	98 (100)	1823
66	97 (100)	1044
67	100 (100)	254

68	99 (100)	2437
69	98 (100)	506
70	100 (100)	913
71	87 (10)	544
73	93 (10)	388
74	83 (100)	22826
75	100 (100)	368
76	100 (100)	3173
77	93 (10)	655
78	95 (100)	607
79	9 (1)	-
80	43 (1)	-
81	30 (1)	-
82	100 (100)	468
83	99 (10)	71
84	76 (1)	712
85	93 (100)	275
86	33 (1)	-
87	(-)52 (1)	-
88	29 (1)	-
89	99 (100)	1232
90	98 (100)	144
91	99 (100)	138
92	92 (100)	673
93	100 (100)	365
94	3 (10)	-
95	47 (10)	7280
96	99 (100)	338
97	20 (10)	-
98	94 (100)	4923
100	75 (100)	2154
101	100 (100)	2227

102	100 (100)	503
103	14 (1)	-
104	99 (100)	394
105	100 (10)	387
106	100 (10)	237
107	99 (10)	304
108	18 (1)	-
109	45 (1)	-
110	99 (10)	314
111	76 (100)	41000
112	(-)2 (1)	-
114	98 (100)	84
115	71 (100)	51313
116	100 (10)	154
117	100 (100)	158
119	100 (10)	572
120	100 (100)	488
121	53 (100)	10565
122	15 (1)	-
123	99 (100)	256
124	99 (100)	285
125	6 (1)	-
126	79 (10)	4906
127	100 (100)	487
128	25 (1)	-
129	100 (100)	380
130	100 (100)	336
132	56 (10)	6215
133	97 (10)	315
134	100 (100)	2770
135	100 (100)	207
136	99 (100)	222

137	98 (100)	120
138	99 (10)	364
139	5 (10)	-
140	100 (100)	298
141	4 (1)	-
142	99 (10)	489
143	100 (100)	1675
144	100 (100)	240
145	94 (100)	1593
146	98 (100)	269
147	99 (100)	71
148	94 (100)	529
149	100 (100)	336
150	100 (100)	244
151	99 (100)	295
154	52 (10)	3817
156	16 (1)	-
157	42 (10)	6761
158	30 (1)	-
159	93 (10)	2928
160	1 (1)	-
161	99 (100)	231
162	100 (10)	44
163	98 (100)	235
164	99 (10)	39
165	57 (10)	6703
166	11 (1)	-
167	100 (100)	279
168	20 (1)	-
169	2 (1)	-
170	25 (1)	-
171	12 (1)	-

172	48 (1)	-
173	28 (1)	-
174	99 (10)	730
175	100 (100)	562
176	12 (1)	-
177	4 (1)	-
178	14 (1)	-
179	47 (10)	8871
180	95 (10)	2872
181	100 (10)	2240
182	83 (10)	4668
183	94 (10)	542
184	90 (10)	420
185	26 (1)	-
186	14 (1)	-
187	86 (1)	362
188	87 (10)	485
189	24 (1)	-
190	3 (1)	-
191	99 (1)	116
192	10 (1)	-
193	8 (1)	-
194	23 (1)	-
195	22 (1)	-
196	11 (1)	-
197	1 (1)	-
198	4 (1)	-
199	30 (1)	-
200	26 (1)	-
201	100 (10)	364
202	6 (1)	-
203	1 (1)	-

204	12 (1)	-
205	100 (10)	196
206	100 (10)	61
207	100 (10)	372
208	99 (10)	149
209	99 (10)	33
210	100 (10)	239
211	98 (10)	39
212	99 (10)	70
213	100 (10)	434
214	100 (10)	68
215	100 (10)	126
216	100 (10)	267
217	100 (10)	218
218	100 (10)	136
219	100 (10)	214
220	100 (10)	4232
221	98 (10)	411
222	100 (10)	760
223	100 (10)	93
224	2 (1)	-
225	98 (10)	154
226	100 (10)	43
227	100 (10)	257
228	99 (10)	147
229	99 (10)	40
230	64 (1)	-
231	100 (10)	25
232	99 (10)	172
233	100 (10)	340
234	99 (10)	61
235	100 (10)	107

236	100 (10)	180
237	100 (100)	368
238	3 (1)	-
239	55 (10)	-
240	84 (10)	507
241	10 (1)	-
242	3 (1)	-
243	99 (10)	390
244	94 (10)	523
245	100 (100)	279
246	47 (1)	-
247	97 (10)	375
248	100 (10)	143
249	100 (10)	182
250	100 (100)	173
251	50 (1)	-
252	36 (1)	-
253	94 (10)	447
254	9 (1)	-
255	12 (1)	-
256	100 (10)	250
257	100 (10)	387
258	16 (1)	-
259	5 (1)	-
260	96 (10)	369
261	37 (1)	-
262	100 (10)	419
263	100 (10)	2932
264	100 (10)	42
265	90 (10)	3808



266	100 (100)	322
267	38 (1)	-
268	100 (10)	347
269	99 (10)	392
270	100 (10)	228
271	14 (1)	-
272	10 (1)	-
273	12 (1)	-
274	100 (10)	2181
275	8 (1)	-
276	16 (1)	-
277	99 (100)	1063
278	4 (1)	-
279	6 (1)	-
280	16 (10)	-
281	94 (100)	1063
282	100 (100)	248
283	99 (100)	1045
287	24 (1)	
288	16 (1)	
289	22 (1)	
290		373
291		411
292		258
293		409
294		299
295		232
296		44
297		251
298		332

299		269
300		79
301		232
302		358
303		487
304		266
305		170
306		265
307		79
308		309
309		32
310		335
311		323
312		298
313		66
314		246
315		320
316		41
317		186
318		258
319		219
320		43
321		185
322		327
323		238
324		89
325		172
326		166
327		82
328		75

329		303
330		169
331		220
332		44
333		410
334		297
335		103
336		1826
337		221
338		164
339		369
340		251
341		191
342		238
343		250
344		251
345		273
346		117
347		288
348		114
349		224
350		240
351		309
352		141
353		174
354		75
355		282
356		247
357		1855
358		203

359		261
360		329

CD3 and CD28 Activation of Peripheral Blood T Cells and Determination of Secreted IL-2 Levels (C28 HU Assay)

5 Human peripheral blood mononuclear cells (PBMC) were isolated by Ficoll-Hypaque separation. PBMCs were stimulated with a combination of immobilized anti-CD3 and soluble anti CD28 mAbs as described in Faltynek, et al. *J. Enzyme Inhibition* **1995**, 9, 111-122, hereby incorporated by reference. Following a 24 hour incubation, cell supernatants were harvested and IL-2 levels were determined. 100  $\mu$ l of 5  $\mu$ g/ml monoclonal murine anti-human

10 IL-2 antibody (Biosource International) in D-PBS was added to 96 well Maxisorb plates (Nunc) and incubated at 4 °C overnight. Plates were washed 4 times with D-PBS containing 0.05% Tween 20 (wash buffer) and blocked with D-PBS containing 1% BSA and 10 mM NaN<sub>3</sub> (Diluent/Blocking buffer) for 1-3 hours at room temperature or overnight at 4 °C. Plates were washed and recombinant human IL-2 diluted (at 10,000, 5,000, 2,500, 1,250, 625, 312.5,

15 156.25, 78, 39, 20 pg/ml) in diluent/blocking buffer containing a matched percentage of complete RPMI 1640 medium as the unknown samples. Tissue culture supernatant at various dilutions were added in triplicate at 100  $\mu$ l/well. Plates were incubated for 2 hours at room temperature and washed 4 times with wash buffer. 100  $\mu$ l of rabbit anti-human IL-2 (10  $\mu$ g/ml, Genzyme) was added and incubated for 1 hour at room temperature. The incubation

20 was followed by 4 washes and subsequent addition of 100  $\mu$ l of 1:2000 dilution of alkaline phosphatase-conjugated goat anti-rabbit F(ab')<sub>2</sub> (Biosource International). After 1 hour the plates were washed 4 times and 100  $\mu$ l of pNPP (Southern Biotech or Sigma) at 1 mg/ml in buffer was added. Color development was allowed to proceed at room temperature for 20 minutes before addition of 50  $\mu$ l of 2 N NaOH. Absorbance at 405 nm was determined using

25 a plate reader (Molecular Devices). IL-2 concentrations were calculated using SoftMax (Molecular Devices) based on the IL-2 standard solutions.

Table 2

Inhibition of IL-2 Secretion by Representative Compounds in the C28 Assay

Example Number	% Inhibition of IL-2 secretion (At concentrations of 1, 10, or 100 $\mu$ M)	C28 Assay IC <sub>50</sub> (nM)
8	20 (1)	-
24	83 (1)	380
33	6 (1)	-
34	13 (100)	-
36	10 (1)	-
38	16 (1)	-
39	14 (1)	-
47	2 (1)	-
61	32 (1)	-
62	96 (100)	5035
63	19 (1)	-
64	86 (100)	22274
72	11 (1)	-
99	9 (1)	-
113	19 (1)	-
118	27 (1)	-
131	32 (1)	-
152	3 (1)	-
153	94 (100)	457
155	8 (1)	-
250	97 (100)	102
266	88 (100)	314
284	17 (1)	-
285	26 (1)	-
286	2 (1)	-

Measurement of IL-5 and IL-4 Levels in Human T Cells (IL-4 and IL-5 Assays) Human T cells (HUT 78) were cultured to  $1 \times 10^6$  /mL in RPMI 1640 medium containing 10% fetal calf

serum, 100 U/mL penicillin and 100 µg/mL streptomycin. Cultures were then centrifuged, to pellet the cells, and cells resuspended in fresh medium to the same density. 0.2 mL samples of cells were incubated in 96-well plates with 8 µL of various concentrations of compound freshly diluted with the above medium from 100 mM solvent stocks (ethanol or DMSO).

- 5 Immediately after addition of compound, cells were stimulated by addition of 2 ng/mL phorbol 12-myristate 13-acetate (1 µL of freshly prepared solution of stock (in DMSO) diluted with the above medium added to cells) and 750 µg/mL anti-CD3 (pre-coated at 4 °C overnight). Cell cultures were incubated at 37 °C for 32 hours, then cells pelleted by centrifugation and the supernatants harvested for ELISA. IL-4 and IL-5 ELISA's were performed according to standard procedures. Inhibition was calculated relative to cytokine levels produced from control stimulated cells not treated with compound.

15 Table 3  
Inhibition of IL-4 and IL-5 Secretion in Human T Cells by Representative Compounds and Comparison with FK-506

Example Number	IL-4 Inhibition IC <sub>50</sub> (nM)	IL-5 Inhibition IC <sub>50</sub> (nM)
FK-506	0.7	0.5
24	150	150
250	50	80
266	110	150
209	5	38
6	8	50
264	4.8	22

20 As shown in Tables 1, 2 and 3, the compounds are useful for inhibiting cytokine (IL-2, IL-4 and IL-5) production and cellular proliferation in stimulated human T cell lines or human peripheral blood mononuclear cells and therefore have utility in the treatment of diseases that are prevented by or ameliorated with cytokine inhibitors.

The compounds of the invention, including but not limited to those specified in the examples, possess immunomodulatory activity in mammals, especially humans. As immunosuppressants, the compounds of the present invention are useful for the treatment and

prevention of immune-mediated diseases such as the resistance to transplantation of organs or tissue such as heart, kidney, liver, medulla ossium, skin, cornea, lung, pancreas, intestinum tenue, limb, muscle, nerves, duodenum, small-bowel, pancreatic-islet-cell, and the like; graft-versus-host diseases brought about by medulla ossium transplantation; autoimmune diseases such as rheumatoid arthritis, systemic lupus erythematosus, Hashimoto's thyroiditis, multiple sclerosis, myasthenia gravis, type I diabetes, uveitis, allergic encephalomyelitis, glomerulonephritis, and the like. Further uses include the treatment and prophylaxis of inflammatory and hyperproliferative skin diseases and cutaneous manifestations of immunologically-mediated illnesses, such as psoriasis, atopic dermatitis, contact dermatitis and further eczematous dermatitises, seborrhoeis dermatitis, lichen planus, pemphigus, bullous pemphigoid, epidermolysis bullosa, urticaria, angioedemas, vasculitides, erythemas, cutaneous eosinophilias, lupus erythematosus, acne and alopecia areata; various eye diseases (autoimmune and otherwise) such as keratoconjunctivitis, vernal conjunctivitis, uveitis associated with Behcet's disease, keratitis, herpetic keratitis, conical cornea, dystrophia epithelialis corneae, corneal leukoma, and ocular pemphigus. In addition reversible obstructive airway disease, which includes conditions such as asthma (for example, bronchial asthma, allergic asthma, intrinsic asthma, extrinsic asthma and dust asthma), particularly chronic or inveterate asthma (for example, late asthma and airway hyper-responsiveness), bronchitis, allergic rhinitis, and the like are targeted by compounds of this invention.

Inflammation of mucosa and blood vessels such as gastric ulcers, vascular damage caused by ischemic diseases and thrombosis. Moreover, hyperproliferative vascular diseases such as intimal smooth muscle cell hyperplasia, restenosis and vascular occlusion, particularly following biologically- or mechanically- mediated vascular injury, could be treated or prevented by the compounds of the invention. Other treatable conditions include but are not limited to ischemic bowel diseases, inflammatory bowel diseases, necrotizing enterocolitis, intestinal inflammations/allergies such as Coeliac diseases, proctitis, eosinophilic gastroenteritis, mastocytosis, Crohn's disease and ulcerative colitis; nervous diseases such as multiple myositis, Guillain-Barre syndrome, Meniere's disease, polyneuritis, multiple neuritis, mononeuritis and radiculopathy; endocrine diseases such as hyperthyroidism and Basedow's disease; hematic diseases such as pure red cell aplasia, aplastic anemia, hypoplastic anemia, idiopathic thrombocytopenic purpura, autoimmune hemolytic anemia, agranulocytosis, pernicious anemia, megaloblastic anemia and anerythroplasia; bone diseases such as osteoporosis; respiratory diseases such as sarcoidosis, fibroid lung and idiopathic interstitial pneumonia; skin disease such as dermatomyositis, leukoderma vulgaris, ichthyosis vulgaris,

photoallergic sensitivity and cutaneous T cell lymphoma; circulatory diseases such as arteriosclerosis, atherosclerosis, aortitis syndrome, polyarteritis nodosa and myocardosis; collagen diseases such as scleroderma, Wegener's granuloma and Sjogren's syndrome; adiposis; eosinophilic fasciitis; periodontal disease such as lesions of gingiva, periodontium, alveolar bone and substantia ossea dentis; nephrotic syndrome such as glomerulonephritis; male pattern alopecia or alopecia senilis by preventing epilation or providing hair germination and/or promoting hair generation and hair growth; muscular dystrophy; Pyoderma and Sezary's syndrome; Addison's disease; active oxygen-mediated diseases, as for example organ injury such as ischemia-reperfusion injury of organs (such as heart, liver, kidney and digestive tract) which occurs upon preservation, transplantation or ischemic disease (for example, thrombosis and cardiac infarction); intestinal diseases such as endotoxin-shock, pseudomembranous colitis and colitis caused by drug or radiation; renal diseases such as ischemic acute renal insufficiency and chronic renal insufficiency; pulmonary diseases such as toxinoses caused by lung-oxygen or drug (for example, paracort and bleomycins), lung cancer and pulmonary emphysema; ocular diseases such as cataracta, siderosis, retinitis, pigmentosa, senile macular degeneration, vitreal scarring and corneal alkali burn; dermatitis such as erythema multiforme and others such as sinusitis, gingivitis, periodontitis, sepsis, pancreatitis, diseases caused by environmental pollution (for example, air pollution), aging, carcinogenesis, metastasis of carcinoma and hypobaropathy; diseases caused by histamine or leukotriene-C<sub>4</sub> release; Behcet's disease such as intestinal-, vasculo- or neuro-Behcet's disease, and also Behcet's which affects the oral cavity, skin, eye, vulva, articulation, epididymis, lung, kidney and so on. Furthermore, the compounds of the invention are useful for the treatment and prevention of hepatic disease such as immunogenic diseases (for example, chronic autoimmune liver diseases such as autoimmune hepatitis, primary biliary cirrhosis and sclerosing cholangitis), partial liver resection, acute liver necrosis (e.g. necrosis caused by toxin, viral hepatitis, shock or anoxia), B-virus hepatitis, non-A/non-B hepatitis, cirrhosis (such as alcoholic cirrhosis) and hepatic failure such as fulminant hepatic failure, late-onset hepatic failure and "acute-on-chronic" liver failure (acute liver failure on chronic liver diseases), and moreover are useful for various diseases because of their useful activity such as augmentation of chemotherapeutic effect, cytomegalovirus infection, particularly HCMV infection, anti-inflammatory activity, sclerosing and fibrotic diseases such as nephrosis, scleroderma, pulmonary fibrosis, arteriosclerosis, congestive heart failure, ventricular hypertrophy, post-surgical adhesions and scarring, stroke, myocardial infarction and injury associated with ischemia and reperfusion, and the like.



The present invention also provides pharmaceutical compositions that comprise compounds of the present invention formulated together with one or more non-toxic pharmaceutically acceptable carriers. The pharmaceutical compositions can be specially formulated for oral administration in solid or liquid form, for parenteral injection or for rectal administration.

The pharmaceutical compositions of this invention can be administered to humans and other animals orally, rectally, parenterally, intracisternally, intravaginally, intraperitoneally or topically (such as powders, ointments or drops), buccally or as an oral or nasal spray. The term "parenteral" administration refers to modes of administration that include intravenous, intramuscular, intraperitoneal, intrasternal, subcutaneous and intraarticular injection and infusion.

Pharmaceutical compositions of this invention for parenteral injection comprise pharmaceutically acceptable sterile aqueous or nonaqueous solutions, dispersions, suspensions or emulsions as well as sterile powders for reconstitution into sterile injectable solutions or dispersions just prior to use. Examples of suitable aqueous and nonaqueous carriers, diluents, solvents or vehicles include water, ethanol, polyols (such as glycerol, propylene glycol, polyethylene glycol, and the like), and suitable mixtures thereof, vegetable oils (such as olive oil) and injectable organic esters such as ethyl oleate. Proper fluidity can be maintained, for example, by the use of coating materials such as lecithin, by the maintenance of the required particle size in the case of dispersions and by the use of surfactants.

These compositions may also contain adjuvants such as preservative, wetting agents, emulsifying agents and dispersing agents. Prevention of the action of microorganisms can be ensured by the inclusion of various antibacterial and antifungal agents, for example, paraben, chlorobutanol, phenol sorbic acid, and the like. It may also be desirable to include isotonic agents such as sugars, sodium chloride, and the like. Prolonged absorption of the injectable pharmaceutical form can be brought about by the inclusion of agents (such as aluminum monostearate and gelatin) that delay absorption.

In some cases, in order to prolong the effect of the drug, it is desirable to slow the absorption of the drug from subcutaneous or intramuscular injection. This can be accomplished by the use of a liquid suspension of crystalline or amorphous material with poor water solubility. The rate of absorption of the drug then depends upon its rate of dissolution that, in turn, may depend upon crystal size and crystalline form. Alternatively, delayed

absorption of a parenterally administered drug form is accomplished by dissolving or suspending the drug in an oil vehicle.

Injectable depot forms are made by forming microencapsule matrices of the drug in biodegradable polymers such as polylactide-polyglycolide. Depending upon the ratio of drug to polymer and the nature of the particular polymer employed, the rate of drug release can be controlled. Examples of other biodegradable polymers include poly(orthoesters) and poly(anhydrides). Depot injectable formulations are also prepared by entrapping the drug in liposomes or microemulsions that are compatible with body tissues.

The injectable formulations can be sterilized, for example, by filtration through a bacterial-retaining filter or by incorporating sterilizing agents in the form of sterile solid compositions that can be dissolved or dispersed in sterile water or other sterile injectable media just prior to use.

Solid dosage forms for oral administration include capsules, tablets, pills, powders and granules. In such solid dosage forms, the active compound is mixed with at least one inert, pharmaceutically acceptable excipient or carrier such as sodium citrate or dicalcium phosphate and/or a) fillers or extenders such as starches, lactose, sucrose, glucose, mannitol and silicic acid; b) binders such as carboxymethylcellulose, alginates, gelatin, polyvinylpyrrolidone, sucrose and acacia; c) humectants such as glycerol; d) disintegrating agents such as agar-agar, calcium carbonate, potato or tapioca starch, alginic acid, certain silicates and sodium carbonate; e) solution retarding agents such as paraffin; f) absorption accelerators such as quaternary ammonium compounds; g) wetting agents such as cetyl alcohol and glycerol monostearate; h) absorbents such as kaolin and bentonite clay and i) lubricants such as talc, calcium stearate, magnesium stearate, solid polyethylene glycols, sodium lauryl sulfate and mixtures thereof. In the case of capsules, tablets and pills, the dosage form may also comprise buffering agents.

Solid compositions of a similar type may also be employed as fillers in soft and hard-filled gelatin capsules using such excipients as lactose or milk sugar as well as high molecular weight polyethylene glycols, and the like.

The solid dosage forms of tablets, dragees, capsules, pills, and granules can be prepared with coatings and shells such as enteric coatings and other coatings well known in the pharmaceutical formulating art. They may optionally contain opacifying agents and may also be of a composition such that they release the active ingredient(s) only, or preferentially, in a certain part of the intestinal tract, optionally or in delayed fashion. Examples of embedding compositions that can be used include polymeric substances and waxes.

The active compounds may also be in micro-encapsulated form, if appropriate, with one or more of the above-mentioned excipients.

The compounds of the present invention may be used in the form of pharmaceutically acceptable salts derived from inorganic or organic acids. By "pharmaceutically acceptable salt" is meant those salts which are, within the scope of sound medical judgement, suitable for  
5 use in contact with the tissues of humans and lower animals without undue toxicity, irritation, allergic response and the like and are commensurate with a reasonable benefit/risk ratio.

Pharmaceutically acceptable salts are well-known in the art. For example, S. M. Berge, *et al.* describe pharmaceutically acceptable salts in detail in J. Pharmaceutical  
10 Sciences, 1977, 66: 1 *et seq.* The salts may be prepared *in situ* during the final isolation and purification of the compounds of the invention or separately by reacting a free base function with a suitable acid. Representative acid addition salts include, but are not limited to acetate, adipate, alginate, citrate, aspartate, benzoate, benzenesulfonate, bisulfate, butyrate, camphorate, camphorsulfonate, digluconate, glycerophosphate, hemisulfate, heptanoate,  
15 hexanoate, fumarate, hydrochloride, hydrobromide, hydroiodide, 2-hydroxyethansulfonate, lactate, maleate, methanesulfonate, nicotinate, 2-naphthalenesulfonate, oxalate, palmoate, pectinate, persulfate, 3-phenylpropionate, picrate, pivalate, propionate, succinate, tartrate, thiocyanate, phosphate, glutamate, bicarbonate, p-toluenesulfonate and undecanoate. Also, the basic nitrogen-containing groups can be quaternized with such agents as lower alkyl  
20 halides such as methyl, ethyl, propyl, and butyl chlorides, bromides and iodides; dialkyl sulfates like dimethyl, diethyl, dibutyl and diamyl sulfates; long chain halides such as decyl, lauryl, myristyl and stearyl chlorides, bromides and iodides; arylalkyl halides like benzyl and phenethyl bromides and others. Water or oil-soluble or dispersible products are thereby obtained. Examples of acids which may be employed to form pharmaceutically acceptable  
25 acid addition salts include such inorganic acids as hydrochloric acid, hydrobromic acid, sulphuric acid and phosphoric acid and such organic acids as oxalic acid, maleic acid, succinic acid and citric acid.

Basic addition salts can be prepared *in situ* during the final isolation and purification of compounds of this invention by reacting a carboxylic acid-containing moiety with a  
30 suitable base such as the hydroxide, carbonate or bicarbonate of a pharmaceutically acceptable metal cation or with ammonia or an organic primary, secondary or tertiary amine. Pharmaceutically acceptable salts include, but are not limited to, cations based on alkali metals or alkaline earth metals such as lithium, sodium, potassium, calcium, magnesium and aluminum salts and the like and nontoxic quaternary ammonia and amine cations including

ammonium, tetramethylammonium, tetraethylammonium, methylamine, dimethylamine, trimethylamine, triethylamine, diethylamine, ethylamine and the like. Other representative organic amines useful for the formation of base addition salts include ethylenediamine, ethanolamine, diethanolamine, piperidine, piperazine and the like.

5        Liquid dosage forms for oral administration include pharmaceutically acceptable emulsions, solutions, suspensions, syrups and elixirs. In addition to the active compounds, the liquid dosage forms may contain inert diluents commonly used in the art such as water or other solvents, solubilizing agents and emulsifiers such as ethyl alcohol, isopropyl alcohol, ethyl carbonate, ethyl acetate, benzyl alcohol, benzyl benzoate, propylene glycol, 1,3-butylene  
10       glycol, dimethyl formamide, oils (in particular, cottonseed, groundnut, corn, germ, olive, castor, and sesame oils), glycerol, tetrahydrofurfuryl alcohol, polyethylene glycols and fatty acid esters of sorbitan and mixtures thereof.

      Besides inert diluents, the oral compositions may also include adjuvants such as wetting agents, emulsifying and suspending agents, sweetening, flavoring and perfuming  
15       agents.

      Suspensions, in addition to the active compounds, may contain suspending agents such as ethoxylated isostearyl alcohols, polyoxyethylene sorbitol and sorbitan esters, microcrystalline cellulose, aluminum metahydroxide, bentonite, agar-agar, and tragacanth and mixtures thereof.

20       Compositions for rectal or vaginal administration are preferably suppositories that can be prepared by mixing the compounds of this invention with suitable non-irritating excipients or carriers such as cocoa butter, polyethylene glycol or a suppository wax that are solid at room temperature but liquid at body temperature and therefore melt in the rectum or vaginal cavity and release the active compound.

25       Compounds of the present invention can also be administered in the form of liposomes. As is known in the art, liposomes are generally derived from phospholipids or other lipid substances. Liposomes are formed by mono- or multi-lamellar hydrated liquid crystals that are dispersed in an aqueous medium. Any non-toxic, physiologically acceptable and metabolizable lipid capable of forming liposomes can be used. The present compositions  
30       in liposome form can contain, in addition to a compound of the present invention, stabilizers, preservatives, excipients, and the like. The preferred lipids are the phospholipids and the phosphatidyl cholines (lecithins), both natural and synthetic.

Methods to form liposomes are known in the art. See, for example, Prescott, Ed., "Methods in Cell Biology," Volume XIV, Academic Press, New York, N.Y. (1976), p. 33 et seq.

Compounds of the present invention may also be coadministered with one or more immunosuppressant agents. The immunosuppressant agents within the scope of this invention include, but are not limited to, IMURAN® (azathioprine sodium), brequinar sodium, SPANIDIN® (gusperimus trihydrochloride, also known as deoxyspergualin), mizoribine (also known as bredinin), CELLCEPT® (mycophenolate mofetil), Cyclosporin A in its various formulations (NEORAL®, SANDIMMUNE®, and generic formulations), PROGRAF® (tacrolimus, also known as FK-506), RAPAMUNE® (sirolimus also known as rapamycin), and leflunomide (also known as HWA-486), glucocorticoids, such as prednisolone and its derivatives, antibody therapies such as orthoclone (OKT3) and Zenapax®, and antithymocyte globulins, such as thymoglobulins.

Dosage forms for topical administration of a compound of this invention include powders, sprays, ointments and inhalants. The active compound is mixed under sterile conditions with a pharmaceutically acceptable carrier and any needed preservatives, buffers or propellants that can be required. Ophthalmic formulations, eye ointments, powders and solutions are also contemplated as being within the scope of this invention. Actual dosage levels of active ingredients in the pharmaceutical compositions of this invention can be varied so as to obtain an amount of the active compound(s) that is effective to achieve the desired therapeutic response for a particular patient, compositions, and mode of administration. The selected dosage level will depend upon the activity of the particular compound, the route of administration, the severity of the condition being treated and the condition and prior medical history of the patient being treated. However, it is within the skill of the art to start doses of the compound at levels lower than required to achieve the desired therapeutic effect and to gradually increase the dosage until the desired effect is achieved. Generally dosage levels of about 1 to about 50, more preferably of about 5 to about 20 mg, of active compound per kilogram of body weight per day when administered orally to a mammalian patient. If desired, the effective daily dose can be divided into multiple doses for purposes of administration, e.g. two to four separate doses per day.

#### Preparation of Compounds of this Invention

The compounds of this invention can be prepared by a variety of synthetic routes. Representative procedures are shown in Schemes 1-12 wherein R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub>, L<sub>3</sub>, Q, B and E are defined above unless otherwise indicated.

5

#### Abbreviations

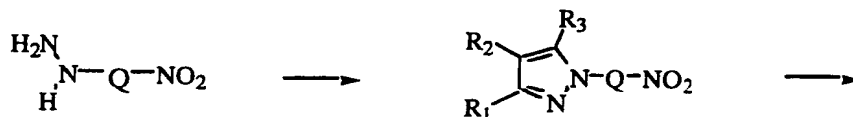
Abbreviations that have been used in the descriptions of the schemes and the examples that follow are: THF for tetrahydrofuran; DMF for N,N-dimethylformamide; DMSO for dimethylsulfoxide; Boc for tert-butylcarbonyloxy; DCC for dicyclohexylcarbodiimide; EDC for 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride; HBTU for O-  
10 benzotriazol-yl-N,N,N'-tetramethyluronium hexafluorophosphate; and DMAP for 4-dimethylaminopyridine. Starting materials, reagents and solvents were purchased from Aldrich Chemical Company (Milwaukee, WI), Maybridge Chemical Company (Tintagel, Cornwall, U.K.), Lancaster (Windham, NH), Sigma (St. Louis, MO), ACROS, and Chess (Mannheim, Germany).

15

#### Description of Intermediates in the Schemes

Compounds of Formula I are designated by the small-case numbers (i), (ii), (iii), (iv), etc. The small-case letters ("-a," "-b," and "-c") that follow the small-case numbers indicate the disposition of the substituent E on ring Q relative to the position of the pyrazole or  
20 triazole ring as defined in the schemes 1-12. Intermediates in the syntheses of compounds of Formula I are further designated by a capital letter (A, B, C, etc).

Scheme 1



Example a (4-nitrophenylhydrazine)

Example b (3-nitrophenylhydrazine)

Example c (2-nitrophenylhydrazine)

Example (i)-a A (Q is 1,4-disubstituted phenyl)

Example (i)-b A (Q is 1,3-disubstituted phenyl)

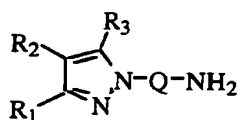
Example (i)-c A (Q is 1,2-disubstituted phenyl)

Example (xviii)-a A (Q is 1,4-disubstituted phenyl)

Example (xix)-a A (Q is 1,4-disubstituted phenyl)

Example (xx)-a A (Q is 1,4-disubstituted phenyl)

Example (xxi)-a A (Q is 1,4-disubstituted phenyl)



Example (i)-a B (Q is 1,4-disubstituted phenyl)

Example (i)-b B (Q is 1,3-disubstituted phenyl)

Example (i)-c B (Q is 1,2-disubstituted phenyl)

Example (xviii)-a B (Q is 1,4-disubstituted phenyl)

Example (xix)-a B (Q is 1,4-disubstituted phenyl)

Example (xx)-a B (Q is 1,4-disubstituted phenyl)

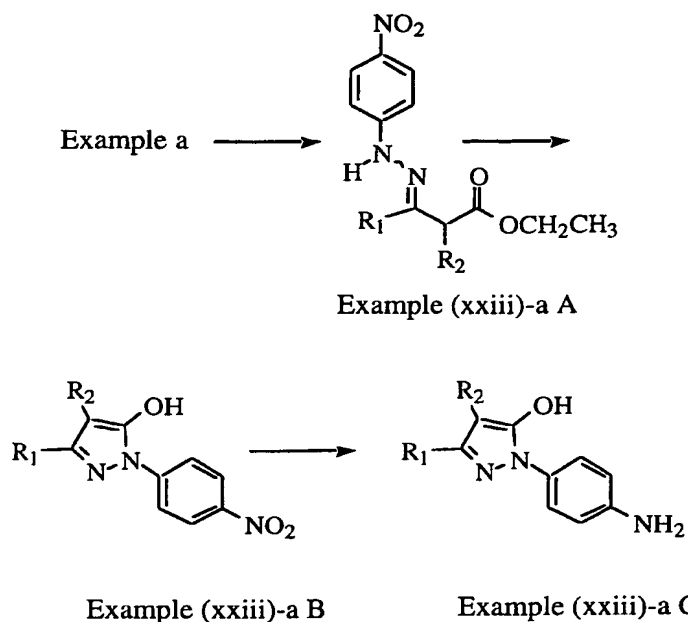
Example (xxi)-a B (Q is 1,4-disubstituted phenyl)

- 5 As shown in Scheme 1, the two-step construction of the 1,4- ("-a"), 1,3- ("-b"), and 1,2-disubstituted ("-c") anilines that served as precursors to compounds of Formula I began with condensation of 1,4-, 1,3- or 1,2-nitrophenylhydrazine ("a," "b," and "c" respectively) with appropriately substituted 2,4-pentanediones in the presence of an acid catalyst such as p-toluenesulfonic acid, HCl, or H<sub>2</sub>SO<sub>4</sub> to provide nitro intermediates (i)-a A, (i)-b A, (i)-c A, (xviii)-a A, (xix)-a A, (xx)-a A, and (xxi)-a A. Conversion of the nitro intermediates to the corresponding aniline precursors (i)-a B, (i)-b B, (i)-c B, (xviii)-a B, (xix)-a B, (xx)-a B, and (xxi)-a B was accomplished with hydrogen gas in the presence of a catalyst, preferably
- 10

palladium on carbon. An alternative method was reduction with tin(II) chloride in the presence of acid, preferably hydrochloric acid, at elevated temperature. A more preferred method of reduction was with iron powder with ammonium chloride in ethanol/water.

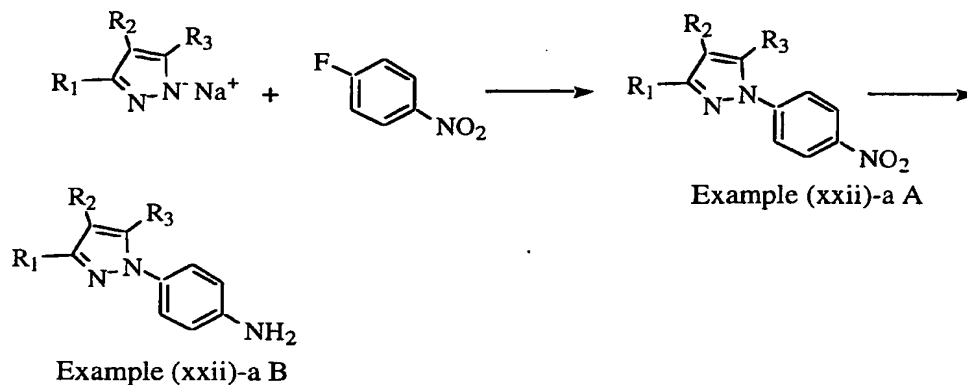


Scheme 2



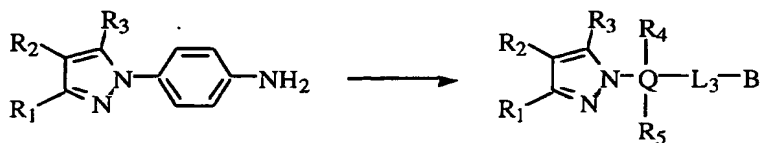
- 5 As shown in Scheme 2, replacement of the pentanedione in Scheme 1 with the appropriately substituted acetoacetate followed by ring closure with a non-nucleophilic base such as  $K_2CO_3$  provided nitro intermediate (xxxiii)-a B which was converted to aniline precursor (xxxiii)-a C with reducing agents such as those described in Scheme 1.

Scheme 3



- 5 As shown in Scheme 3, an alternative route to aniline precursors was direct displacement of a leaving group, preferably fluoride, from 4-fluoronitrobenzene by the sodium salt of a preformed, substituted pyrazole ring followed by conversion of the nitro intermediate (xxii)-a A to aniline precursor (xxii)-a B with reducing agents such as those described in Scheme 1.

Scheme 4



Formula I

-L<sub>3</sub>- is -NHC(O)-

Example (i)-a B (Q is 1,4-disubstituted phenyl)

Example (i)-a

Example (i)-b B (Q is 1,3-disubstituted phenyl)

Example (i)-b

Example (i)-c B (Q is 1,2-disubstituted phenyl)

Example (i)-c

Example (xviii)-a B (Q is 1,4-disubstituted phenyl)

Example (xviii)-a

Example (xix)-a B (Q is 1,4-disubstituted phenyl)

Example (xix)-a

Example (xx)-a B (Q is 1,4-disubstituted phenyl)

Example (xx)-a

Example (xxi)-a B (Q is 1,4-disubstituted phenyl)

Example (xxi)-a

Example (xxii)-a B (Q is 1,4-disubstituted phenyl)

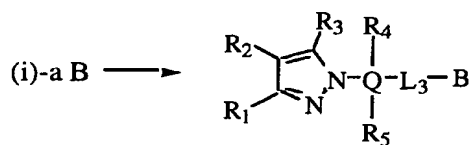
Example (xxii)-a

Example (xxiii)-a C (Q is 1,4-disubstituted phenyl)

Example (xxiii)-a

5 As shown in Scheme 4, conversion of the aniline precursors to compounds of Formula I was achieved by treatment of the anilines exemplified by examples (i)-a B, (i)-b B, (i)-c B, (xviii)-a B, (xix)-a B, (xx)-a B, (xxi)-a B, (xxii)-a B, and (xxiii)-a C with acid chlorides in the presence of base such as triethylamine, diisopropylethylamine or pyridine in dichloromethane. The same aniline intermediates may be reacted with carboxylic acids in dichloromethane in  
 10 the presence of coupling agents such as DCC, HBTU or EDC with DMAP, preferably EDC with DMAP.

Scheme 5



Formula I

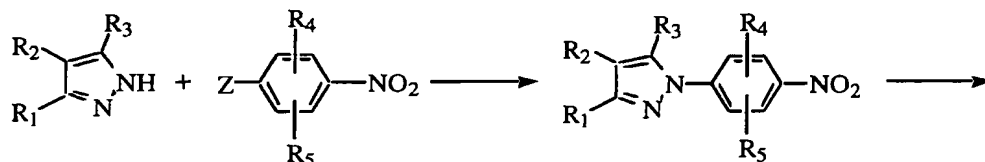
Example (ii)-a     $\text{-L}_3\text{-}$  is  $\text{-NHC(O)NH-}$

Example (iii)-a     $\text{-L}_3\text{-}$  is  $\text{-NHSO}_2\text{-}$

Example (vi)-a     $\text{-L}_3\text{-}$  is  $\text{-NH(CH}_2)_m\text{-}$

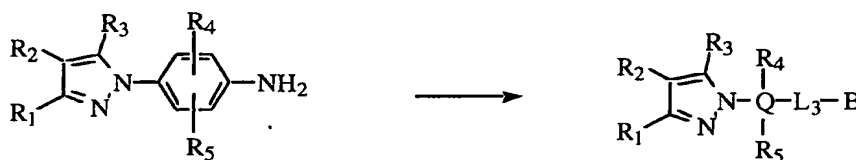
- 5        As shown in Scheme 5, conversion of Example (i)-a B to compounds of Formula I, as exemplified by examples (ii)-a, (iii)-a, and (vi)-a, was achieved by treatment of Example (i)-a B with isocyanates, sulfonyl chlorides, or aldehydes in the presence of appropriate reducing agents, respectively.

Scheme 6



$R_4$  is hydrogen;

$R_5$  is alkoxycarbonyl((x)-a B);  
 haloalkyl ((xi)-a A and (xii)-a A);  
 halo ((xiii)-a A and (xvi)-a A);  
 alkyl ((xiv)-a A);  
 alkoxy ((xv)-a A); or  
 substituted heterocycle ((xvii)-a A)



$R_5$  is alkoxycarbonyl((x)-a C);  
 haloalkyl ((xi)-a B and (xii)-a B);  
 halo ((xiii)-a B and (xvi)-a B);  
 alkyl ((xiv)-a B);  
 alkoxy ((xv)-a B); or  
 substituted heterocycle ((xvii)-a B)

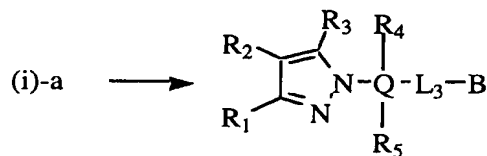
#### Formula I

$L_3$  is  $-NR_6C(W)-$ ;  
 $R_6$  is H; and W is O  
 $R_5$  is alkoxycarbonyl((x)-a);  
 haloalkyl ((xi)-a and (xii)-a );  
 halo ((xiii)-a and (xvi)-a );  
 alkyl ((xiv)-a );  
 alkoxy ((xv)-a ); or  
 substituted heterocycle ((xvii)-a )

- 5 As shown in Scheme 6, the displacement and reduction chemistry described in Scheme 3 for the synthesis of the aniline precursors (where  $R_4$  and  $R_5$  are hydrogen) was also employed for the synthesis of aniline precursors where at least one of  $R_4$  and  $R_5$  is other than hydrogen. Anilines (x)-a C, (xi)-a B, (xii)-a B, (xiii)-a B, (xiv)-a B, (xv)-a B, (xvi)-a B, and (xvii)-a B were then converted to compounds of Formula I (exemplified by (x)-a, (xi)-a,

(xii)-a, (xiii)-a, (xiv)-a, (xv)-a, (xvi)-a, and (xvii)-a by the coupling conditions described in Scheme 4.

Scheme 7



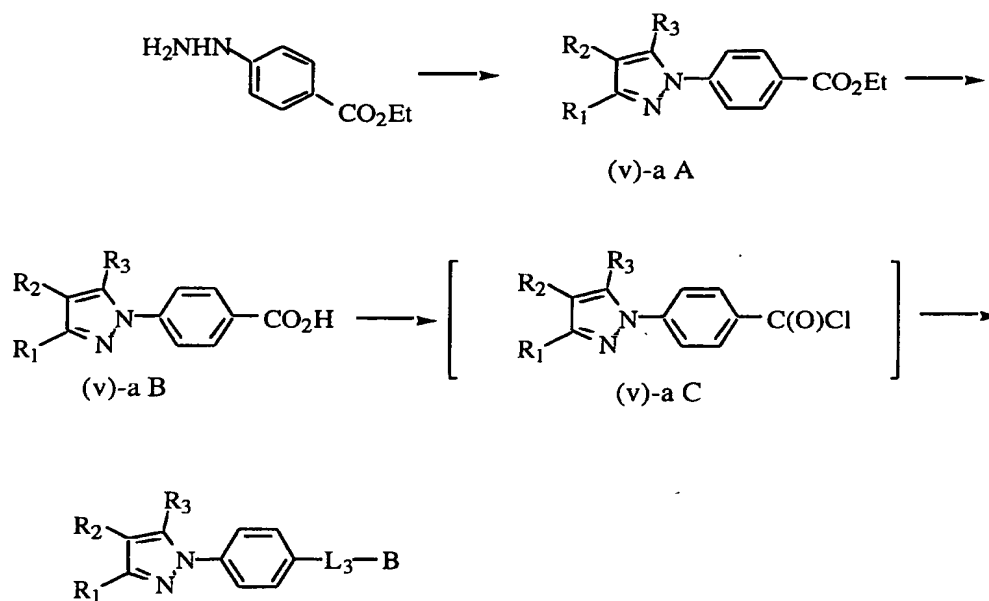
Formula I

Example (iv)-a

 $\text{L}_3$  is  $-\text{NR}_6\text{C}(\text{W})-$ ; $\text{R}_6$  is  $\text{CH}_3$ ; and  $\text{W}$  is  $\text{O}$ 

- 5 Compounds with modified, preformed linker groups are exemplified in Scheme 7. Compounds of Formula I (exemplified by Example (i)-a) were alkylated at the amide bond nitrogen with methyl iodide in the presence of base, preferably potassium hydroxide to provide compounds of Formula I exemplified by Example (iv)-a.

Scheme 8



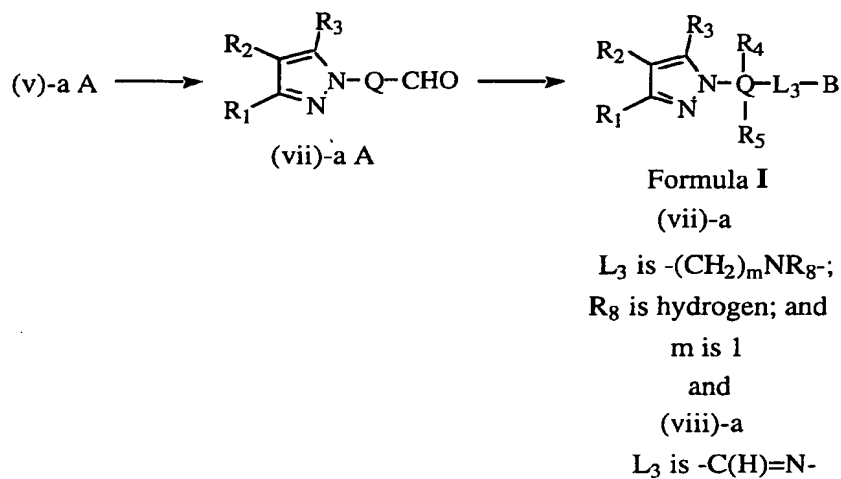
Formula I

-L<sub>3</sub>- is -C(O)NH-  
(v)-a

- 5 As shown in Scheme 8, compounds of Formula I derived from intermediates other than anilines were prepared from intermediate ester Example (v)-a A. Construction of the pyrazole ring from ethyl 4-hydrazinobenzoate according to Example (i)-a (Method 1) provided Example (v)-a A which was then hydrolyzed to carboxylic acid (v)-a B with base, preferably sodium hydroxide. Example (v)-a B was then elaborated to compounds of Formula
- 10 I by conversion to the acid chloride (v)-a C with reagents such as thionyl chloride followed by treatment with amines in the presence of a base such as pyridine or triethylamine.

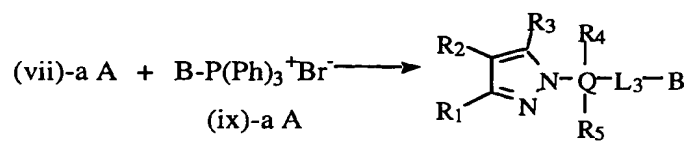


Scheme 9



- 5 As shown in Scheme 9, Example (v)-a A was converted to aldehyde (vii)-a A by treatment with a reducing agent, preferably DIBAL-H at reduced temperature. Example (vii)-a A was then elaborated to compounds of Formula I by reductive amination or condensation (Example (vii)-a and Example (viii)-a, respectively by Method 13).

Scheme 10



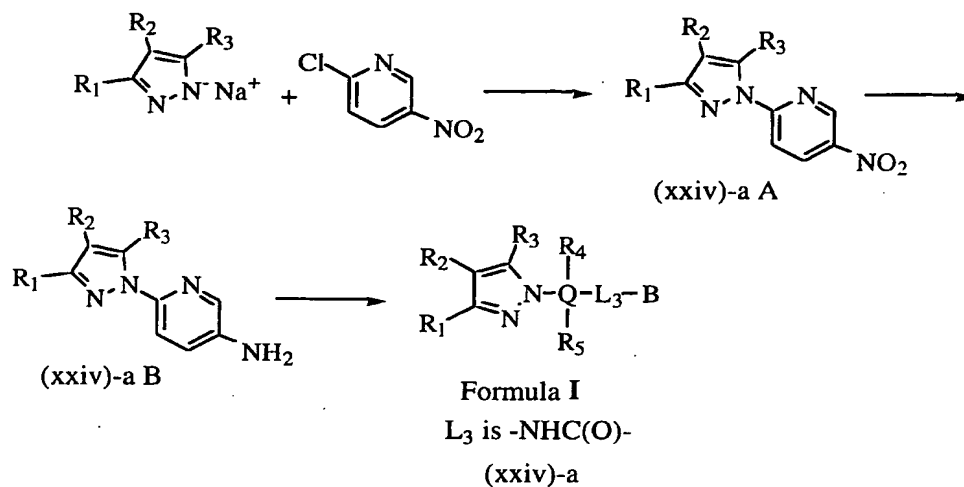
Formula I

(ix)-a

 $\text{L}_3$  is Z and E alkenylene

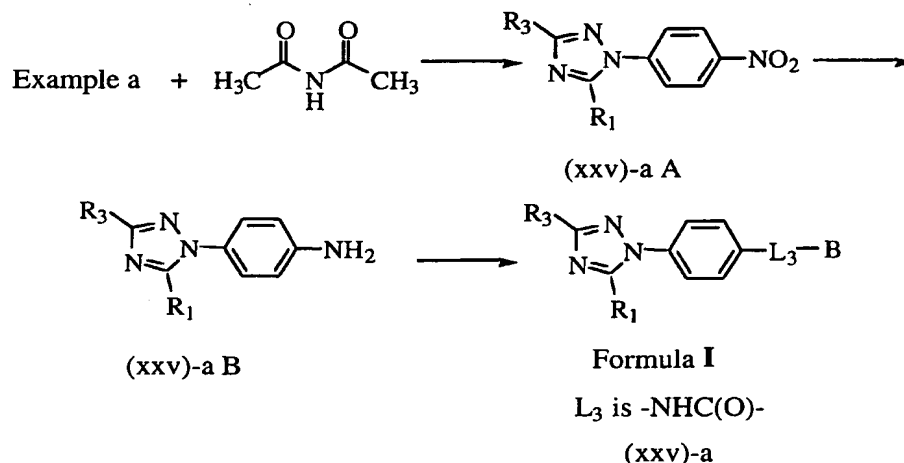
- 5 As shown in Scheme 10, treatment of Example (vii)-a A with ylides such as Example (ix)-a A also provided compounds of Formula I (exemplified by (ix)-a).

Scheme 11



- 5 As shown in Scheme 11, the displacement and reduction chemistry described in Scheme 3 for the synthesis of the aniline precursors was also employed for the synthesis of precursors of compounds of Formula I where Q is a heterocycle, such as pyridine. 2-Chloro-5-nitropyridine was converted to nitro precursor (xxiv)-a A by treatment with the sodium salt of
- 10 a preformed, substituted pyrazole ring. Example (xxiv)-a A was converted to aniline intermediate (xxiv)-a B by the reduction chemistry described in Scheme 1 then to compounds of Formula I by the coupling chemistry described in Scheme 4.

Scheme 12



- 5 As shown in Scheme 12, construction of the substituted triazole rings of the compounds of Formula I was achieved by treatment of Example a (4-nitrophenylhydrazine) with diacetamide in the presence of acid, preferably sulfuric acid, to provide nitro intermediate (xxv)-a A. Example (xxv)-a A was converted to aniline intermediate (xxv)-a B with reducing agents such as those described in Scheme 1. Example (xxv)-a B was then converted to compounds of Formula I by the coupling chemistry described in scheme 4.
- 10

#### Example (i)-a, (i)-b, and (i)-c

15

#### Compounds of Formula I where

$R_1$  and  $R_3$  are  $CF_3$ ;  $R_2$  is H; Z is carbon; Q is 1,4-, 1,3-, and 1,2-disubstituted phenyl;  $R_4$  and  $R_5$  are hydrogen;  $L_3$  is  $-N(R_6)C(W)-$  where W is O and  $R_6$  is H

#### Example (i)-a A, (i)-b A, and (i)-c A (Method 1)

20

A solution of a, b, or c (1 equivalent), 1,1,1,5,5,5-hexafluoro-2,4-pentanedione (1.2 equivalents), and p-toluenesulfonic acid (1 mmol) in toluene was refluxed for 18 hours in a Dean-Stark apparatus, diluted with ethyl acetate, washed sequentially with 1M HCl and saturated aqueous  $NaHCO_3$ , dried ( $MgSO_4$ ), and concentrated. The residue was purified by

flash chromatography on silica gel with ethyl acetate/hexane to provide the desired compounds.

Example (i)-a A, (i)-b A, and (i)-c A (Method 2)

- 5 A solution of a, b, or c (1 equivalent) and 1,1,1,5,5,5-hexafluoro-2,4-pentanedione (1.2 equivalents) in 4M hydrochloric acid (10-12 equivalents) and ethanol was refluxed overnight and concentrated. The residue was dissolved into ethyl acetate, washed sequentially with 1M HCl and brine, dried ( $\text{Na}_2\text{SO}_4$ ), and concentrated to provide the desired compounds.  
(Example (i)-a A)  $^1\text{H}$  NMR ( $\text{DMSO}-d_6$ , 300 MHz)  $\delta$  8.55-8.38 (dt, 2H), 7.78-7.74 (dt, 2H),  
10 7.17 (s, 1H);  
MS ( $\text{DCI}/\text{NH}_3$ ) m/e 313 (reduced to aniline in MS,  $\text{M}+\text{NH}_4^+$ ).  
(Example (i)-b A)  $^1\text{H}$  NMR ( $\text{DMSO}-d_6$ , 300 MHz)  $\delta$  8.6 (t, 1H), 8.5 (m, 1H), 8.2 (dd, 1H),  
8.0 (t, 1H), 7.9 (s, 1H);  
(Example (i)-c A)  $^1\text{H}$  NMR ( $\text{DMSO}-d_6$ , 300 MHz)  $\delta$  8.38 (dd, 1H), 8.08-7.99 (m, 4H).

15

Example (i)-a B, (i)-b B, and (i)-c B (Method 3)

- A solution of (i)-(a, b, or c) A in ethyl acetate was treated with  $\text{SnCl}_2$  (4 equivalents) at reflux (in some cases, the addition of concentrated hydrochloric acid (catalytic to 1 equivalent) led to a cleaner reduction), cooled, washed with saturated  $\text{NaHCO}_3$ , dried  
20 ( $\text{Na}_2\text{SO}_4$ ), and concentrated. The residue was purified by column chromatography on silica gel with ethyl acetate/hexane or acetone/hexane to provide the desired compounds.

Example (i)-a B, (i)-b B, and (i)-c B (Method 4)

- A solution of (i)-(a, b, or c) A and 5-10% palladium on carbon in ethyl acetate was  
25 hydrogenated at 1-4 atm, filtered through a short silica gel plug, and concentrated to provide the desired compounds.  
(Example (i)-a B)  $^1\text{H}$  NMR ( $\text{DMSO}-d_6$ , 300 MHz)  $\delta$  7.69 (s, 1H), 7.16 (d, 2H), 6.64 (d, 2H),  
5.68 (s, 2H).  
(Example (i)-b B)  $^1\text{H}$  NMR ( $\text{DMSO}-d_6$ , 300 MHz)  $\delta$  7.8 (s, 1H), 7.2 (t, 1H), 6.8 (d, 1H), 6.7  
30 (s, 1H), 6.6 (d, 1H), 5.6 (s, 2H);  
(Example (i)-c B)  $^1\text{H}$  NMR ( $\text{DMSO}-d_6$ , 300 MHz)  $\delta$  7.73 (s, 1H), 7.25 (t, 1H), 7.11 (d, 1H),  
6.84 (d, 1H), 6.6 (t, 1H), 5.27 (s, 2H).

Example (i)-a

Compounds of Formula I (Method 5)

A solution of (i)-a B (1 equivalent), B-C(O)Cl (2 equivalents), and polyvinylpyridine in dichloromethane in a capped test tube was shaken overnight, treated with a primary benzyl amine resin, preferably Aminomethyl Resin-HCl (Midwest Bio-Tech, Fishers, IN) shaken for  
5 an additional 2 hours, eluted through a silica gel plug with acetone, and concentrated. The residue was purified by flash chromatography on silica gel to provide the desired compounds.

Example (i)-aCompounds of Formula I (Method 6)

10 A solution of (i)-a B (1 equivalent), B-C(O)Cl (1-1.5 equivalents), and base (preferably pyridine or triethylamine, 1-10 equivalents) in an appropriate solvent, preferably dichloromethane or THF, was shaken overnight in a capped test tube, diluted with ethyl acetate, washed with saturated NaHCO<sub>3</sub> and 1M HCl, and concentrated. The residue was purified by flash chromatography on silica gel to provide the desired compounds.

Example (i)-aCompounds of Formula I (Method 7)

Example (i)-a B (1 equivalent), the appropriate carboxylic acid (B-CO<sub>2</sub>H, 1-2 equivalents), and EDC (1-1.5 equivalents), and DMAP (catalytic to 1 equivalent) in  
20 dichloromethane was shaken in a capped test tube for 18 hours at a temperatures between 25 and 60 °C, extracted with 1N hydrochloric acid and water, dried (Na<sub>2</sub>SO<sub>4</sub>), and concentrated. The residue was purified by flash chromatography on silica gel to provide the desired compounds.

Example (i)-bCompounds of Formula I where

R<sub>1</sub> and R<sub>3</sub> are CF<sub>3</sub>; R<sub>2</sub> is H; Z is carbon; Q is 1,3-disubstituted phenyl; R<sub>4</sub> and R<sub>5</sub> are hydrogen; L<sub>3</sub> is -N(R<sub>6</sub>)C(W)-; W is O and R<sub>6</sub> is H

25 Example (i)-b B was processed as in Example (i)-a B (Method 5, 6, or 7) to provide  
30 the desired compounds.

Example (i)-cCompounds of Formula I where

R<sub>1</sub> and R<sub>3</sub> are CF<sub>3</sub>; R<sub>2</sub> is H; Z is carbon; Q is 1,2-disubstituted phenyl; R<sub>4</sub> and R<sub>5</sub> are hydrogen; L<sub>3</sub> is -N(R<sub>6</sub>)C(W)- where W is O and R<sub>6</sub> is H

Example (i)-c B was processed as in Example (i)-a B (Method 5, 6, or 7) to provide the desired compounds.

5

Example (ii)-a (Method 8)

Compounds of Formula I where

R<sub>1</sub> and R<sub>3</sub> are CF<sub>3</sub>; R<sub>2</sub> is H; Z is carbon; Q is 1,4-disubstituted phenyl; R<sub>4</sub> and R<sub>5</sub> are hydrogen; L<sub>3</sub> is -N(R<sub>6</sub>)C(O)N(R<sub>7</sub>)- where R<sub>6</sub> and R<sub>7</sub> are H

10 A mixture of (i)-a B (1 equivalent) and an isocyanate (B-N=C=O, 1 equivalent) in toluene was stirred at room temperature for 18 hours. The precipitate was collected by filtration, rinsed with a nonpolar solvent, preferably toluene or hexane, and dried to provide the desired compounds.

15

Example (iii)-a (Method 9)

Compounds of Formula I where

R<sub>1</sub> and R<sub>3</sub> are CF<sub>3</sub>; R<sub>2</sub> is H; Z is carbon; Q is 1,4-disubstituted phenyl; R<sub>4</sub> and R<sub>5</sub> are hydrogen; L<sub>3</sub> is -NR<sub>6</sub>S(O)<sub>p</sub>- p is 2 and R<sub>6</sub> is H

20 A mixture of (i)-a B (1 equivalent), a sulfonyl chloride (B-SO<sub>2</sub>Cl, 1-1.2 equivalents) and pyridine (3-4 equivalents) in dichloromethane at room temperature was shaken or stirred for 18 hours and purified by extractive workup or flash column chromatography on silica gel to provide the desired compounds.

25

Example (iv)-a (Method 10)

Compounds of Formula I where

R<sub>1</sub> and R<sub>3</sub> are CF<sub>3</sub>; R<sub>2</sub> is H; Z is carbon; Q is 1,4-disubstituted phenyl; R<sub>4</sub> and R<sub>5</sub> are hydrogen; L<sub>3</sub> is -N(R<sub>6</sub>)C(W)-; W is O; and R<sub>6</sub> is methyl

30 A solution of Example (i)-a (1 equivalent) and iodomethane (4 equivalents) in THF was treated with KOH powder (5 equivalents), heated to reflux for 6 hours, cooled to room temperature (or stirred at room temperature for 20 hours), filtered and concentrated. The residue was purified by flash chromatography on silica gel to provide the desired compounds.

Example (v)-a

Compounds of Formula I where

R<sub>1</sub> and R<sub>3</sub> are CF<sub>3</sub>; R<sub>2</sub> is H; Z is carbon; Q is 1,4-disubstituted phenyl; R<sub>4</sub> and R<sub>5</sub> are hydrogen; L<sub>3</sub> is -C(W)N(R<sub>6</sub>)-; W is O; and R<sub>6</sub> is H

#### Example (v)-a A

5 A solution of ethyl 4-hydrazinobenzoate (1 equivalent) and 1,1,1,5,5,5-hexafluoro-2,4-pentanedione (1.1 equivalents) in 4M HCl/ethanol were heated to reflux for 18 hours and concentrated. The residue was dissolved in dichloromethane and eluted through a silica gel plug with dichloromethane to provide the desired compound.  
<sup>1</sup>H NMR (300 MHz, DMSO-d<sub>6</sub>) δ 8.17 (d, 2H), 7.91 (s, 1H), 7.8 (d, 2H), 4.38 (q, 2H), 1.35 (t, 10 3H).

#### Example (v)-a B

A solution of Example (v)-a A (1 equivalent) and NaOH (5 equivalents) in ethanol was heated to reflux for 2 hours, concentrated, redissolved in water, acidified with 1N HCl to 15 pH~4, and extracted with diethyl ether. The extract was washed with brine, dried (Na<sub>2</sub>SO<sub>4</sub>), and concentrated to provide the desired compound.  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 13.4 (bs, 1H), 8.15 (d, 2H), 7.88 (s, 1H), 7.77 (d, 2H).

#### Example (v)-a C

##### Compounds of Formula I

20 A solution of Example (v)-a B (1 equivalent) in thionyl chloride (22 equivalents) was heated to reflux for 3 hours and concentrated.

#### Example (v)-a (Method 11)

##### Compounds of Formula I

25 Example (v)-a C in dichloromethane was treated with amine (H<sub>2</sub>N-B, 1 equivalent) in the presence of pyridine (4 equivalents), and purified by flash chromatography on silica gel to provide the desired compounds.

#### Example (vi)-a (Method 12)

##### Compounds of Formula I where

R<sub>1</sub> and R<sub>3</sub> are CF<sub>3</sub>; R<sub>2</sub> is H; Z is carbon; Q is 1,4-disubstituted phenyl; R<sub>4</sub> and R<sub>5</sub> are hydrogen; L<sub>3</sub> is -NR<sub>6</sub>(alkylene)<sub>m</sub>-; R<sub>6</sub> is hydrogen, and m is 1



A slurry of Example (i)-a B (1 equivalent) and the appropriate aldehyde (B-CHO, 1.2 equivalents) in dichloromethane (20 mL) was treated with a catalytic amount of p-toluenesulfonic acid monohydrate (0.01 equivalents), stirred at room temperature for 30 minutes, treated with sodium triacetoxyborohydride (1.5 equivalents), stirred for 12 hours, diluted with dichloromethane, washed with brine, dried (Na<sub>2</sub>SO<sub>4</sub>), and concentrated. The residue was purified by HPLC with 10% acetone/90% hexanes to provide the desired compounds.

Example (vii)-a

Compounds of Formula I where

R<sub>1</sub> and R<sub>3</sub> are CF<sub>3</sub>; R<sub>2</sub> is H; Z is carbon; Q is 1,4-disubstituted phenyl; R<sub>4</sub> and R<sub>5</sub> are hydrogen; L<sub>3</sub> is

-(alkylene)<sub>m</sub>NR<sub>6</sub>-, R<sub>6</sub> is hydrogen, and m is 1

and

Example (viii)-a

Compounds of Formula I where

R<sub>1</sub> and R<sub>3</sub> are CF<sub>3</sub>; R<sub>2</sub> is H; Z is carbon; Q is 1,4-disubstituted phenyl; R<sub>4</sub> and R<sub>5</sub> are hydrogen; L<sub>3</sub> is

-C(H)=N-

Example (vii)-a A

Example (v)-a A (1 equivalent) in toluene at -78 °C was treated with DIBAL-H (1.5 M solution in toluene, 1.1 equivalent), stirred for 30 minutes, treated with water, warmed to room temperature, treated with 2 M sodium hydroxide, stirred for 30 minutes, and extracted with diethyl ether. The extract was washed with brine, dried (MgSO<sub>4</sub>) and concentrated. The residue was passed through a silica gel plug (70-230 mesh, 100 mL) with 20% acetone/hexanes then purified by normal phase HPLC with 20% acetone/hexanes to provide the desired compound.

<sup>1</sup>H NMR (300 MHz, DMSO-d<sub>6</sub>) δ 10.10 (s, 1H), 8.20-8.10 (m, 2H), 7.90 (d, 2H), 7.85 (s, 1H);

MS (DCI/NH<sub>3</sub>) 308 (M+NH<sub>4</sub>-H<sub>2</sub>O)<sup>+</sup>.

Example (vii)-a and Example (viii)-a (Method 13)

Compounds of Formula I

A mixture of Example (vii)-a A (1 equivalent) and the appropriate amine (B-NH<sub>2</sub>, 1.1 equivalent) in dichloroethane (3 mL) at room temperature was treated sequentially with acetic acid (1.0 equivalent) and sodium triacetoxyborohydride (1.5 equivalents), shaken for 4 hours at room temperature, washed with brine, eluted through a MgSO<sub>4</sub>/silica gel plug with 10% acetone/hexanes, concentrated, and purified on silica gel with 10% acetone/hexanes to provide a mixture of the desired compounds.

Example (ix)-a

Compounds of Formula I where

R<sub>1</sub> and R<sub>3</sub> are CF<sub>3</sub>; R<sub>2</sub> is H; Z is carbon; Q is 1,4-disubstituted phenyl; R<sub>4</sub> and R<sub>5</sub> are hydrogen; L<sub>3</sub> is alkenylene

Example (ix)-a A

A solution of halide (B-Br where B is C<sub>1</sub>-C<sub>6</sub> alkyl substituted with substituted aryl, 1 equivalent) and triphenylphosphine (1.2 equivalents) in toluene was heated to reflux for 2 hours, filtered, washed with toluene and dried under vacuum to provide the desired compounds.

Example (ix)-a Compounds of Formula I (Method 14)

A solution of sodium methoxide (prepared by the addition of sodium metal (1.06 equivalents) in methanol) was treated with Example (ix)-a A (1.0 equivalents) stirred at room temperature for 30 minutes, treated with Example (vii)-a A (1 equivalent), heated to reflux for 2 hours, cooled, treated with brine and extracted with diethyl ether. The extract was dried (Na<sub>2</sub>SO<sub>4</sub>), and concentrated. The residue was purified by HPLC eluting with acetone/hexanes to provide the desired compounds as a mixtures of Z (major) and E (minor) isomers.

Example (x)-a

Compounds of Formula I where

R<sub>1</sub> and R<sub>3</sub> are CF<sub>3</sub>; R<sub>2</sub> is H; Z is carbon; Q is 1,4-disubstituted phenyl; R<sub>4</sub> is hydrogen; R<sub>5</sub> is alkoxycarbonyl; L<sub>3</sub> is -N(R<sub>6</sub>)C(W)-; W is O; R<sub>6</sub> is hydrogen

Example (x)-a A

2-Fluoro-5-nitrobenzoic acid in 3:1 methanol/THF at 0 °C was treated dropwise with (trimethylsilyl)diazomethane to a yellow endpoint, stirred for 36 hours at room temperature,

treated with acetic acid, and concentrated. The residue was dissolved in ethyl acetate, washed with 2M sodium hydroxide, dried (Na<sub>2</sub>SO<sub>4</sub>), and concentrated to provide the desired compound.

5

Example (x)-a B

A slurry of sodium hydride (1 equivalent) in DMF was treated sequentially with N-3,5-bis(trifluoromethyl)pyrazole (1 equivalent) in DMF and Example (x)-a A (1 equivalent) in DMF, heated to 45 °C for 10 hours, cooled to room temperature, treated with water, and extracted with ethyl acetate. The extract was washed with 1M HCl, dried (Na<sub>2</sub>SO<sub>4</sub>), and concentrated. The residue was purified on silica gel with 20-70% ethyl acetate/hexanes to provide the desired compound.

<sup>1</sup>H NMR (300 MHz, DMSO-d<sub>6</sub>) δ 8.76-8.64 (m, 2H) 8.17 (d, 1H), 7.94 (s, 1H), 3.70 (s, 3H).

Example (x)-a C

Example (x)-a B was processed by Method 3 to provide the desired compound.  
mp 45-47 °C;

<sup>1</sup>H NMR (300 MHz, DMSO-d<sub>6</sub>) δ 7.6 (s, 1H), 7.20 (d, 1H), 7.13 (d, 1H), 6.76 (dd, 1H), 5.92 (s, 2H), 3.46 (s, 3H).

20

Example (x)-a Compounds of Formula I

Example (x)-a C was processed by Method 5, 6, or 7 to provide the desired compounds of Formula I.

Example (xi)-a

25

Compounds of Formula I where

R<sub>1</sub> and R<sub>3</sub> are CF<sub>3</sub>; R<sub>2</sub> is H; Z is carbon; O is 1,4-disubstituted phenyl; R<sub>4</sub> is hydrogen; R<sub>5</sub> is CF<sub>3</sub>; L<sub>3</sub> is -N(R<sub>6</sub>)C(W)-; W is O; R<sub>6</sub> is hydrogen

Example (xi)-a A

30

4-Bromo-3-trifluoromethylnitrobenzene was processed as in Example (x)-a B to provide the desired compound.

Example (xi)-a B

Example (x)-a A was processed by Method 3 to provide the desired compound.

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.78 (s, 1H), 7.4 (d, 1H), 7.03 (d, 1H), 6.84 (dd, 1H), 6.25 (s, 2H).

Example (xi)-a Compounds of Formula I

5        Example (xi)-a B was processed by Method 5, 6, or 7 to provide the desired compounds of Formula I.

Example (xii)-a

Compounds of Formula I where

10        R<sub>1</sub> and R<sub>3</sub> are CF<sub>3</sub>; R<sub>2</sub> is H; Z is carbon; Q is 1,4-disubstituted phenyl; R<sub>4</sub> is hydrogen; R<sub>5</sub> is CF<sub>3</sub>; L<sub>3</sub> is -N(R<sub>6</sub>)C(W)-; W is O; R<sub>6</sub> is hydrogen

Example (xii)-a A

15        4-Fluoro-2-trifluoromethylnitrobenzene was processed as in Example (x)-a B to provide the desired compound.

Example (xii)-a B

20        Example (xii)-a A was processed by Method 3 to provide the desired compound.  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.75 (s, 1H), 7.6 (d, 1H), 7.46 (dd, 1H), 6.95 (d, 1H), 6.22 (s, 2H).

Example (xii)-a Compounds of Formula I

25        Example (xii)-a B was processed by Method 5, 6, or 7 to provide the desired compounds of Formula I.

Example (xiii)-a

Compounds of Formula I where

30        R<sub>1</sub> and R<sub>3</sub> are CF<sub>3</sub>; R<sub>2</sub> is H; Z is carbon; Q is 1,4-disubstituted phenyl; R<sub>4</sub> is hydrogen; R<sub>5</sub> is halo; L<sub>3</sub> is -N(R<sub>6</sub>)C(W)-; W is O; R<sub>6</sub> is hydrogen

Example (xiii)-a A

4-Bromo-3-chloronitrobenzene was processed as in Example (x)-a B to provide the desired compound.

Example (xiii)-a B

Example (xiii)-a A was processed by Method 3 to provide the desired compound.  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.76 (s, 1H), 7.32 (d, 1H), 6.8 (d, 1H), 6.1 (dd, 1H), 6.04 (s, 2H).

5

Example (xiii)-a Compounds of Formula I

Example (xiii)-a B was processed by Method 5, 6, or 7 to provide the desired compounds of Formula I.

10

Example (xiv)-aCompounds of Formula I where

R<sub>1</sub> and R<sub>3</sub> are CF<sub>3</sub>; R<sub>2</sub> is H; Z is carbon; Q is 1,4-disubstituted phenyl; R<sub>4</sub> is hydrogen; R<sub>5</sub> is methyl; L<sub>3</sub> is -N(R<sub>6</sub>)C(W)-; W is O; R<sub>6</sub> is hydrogen

15

Example (xiv)-a A

4-Fluoro-2-methylnitrobenzene was processed as in Example (x)-a B to provide the desired compound.

Example (xiv)-a B

Example (xiv)-a A was processed by Method 3 to provide the desired compound.  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.68 (s, 1H), 7.1 (d, 1H), 7.06 (dd, 1H), 6.68 (d, 1H), 5.4 (s, 2H), 2.08 (s, 3H).

20

Example (xiv)-a Compounds of Formula I

Example (xiv)-a B was processed by Method 5, 6, or 7 to provide the desired compounds of Formula I.

25

Example (xv)-aCompounds of Formula I where

R<sub>1</sub> and R<sub>3</sub> are CF<sub>3</sub>; R<sub>2</sub> is H; Z is carbon; Q is 1,4-disubstituted phenyl; R<sub>4</sub> is hydrogen; R<sub>5</sub> is alkoxy; L<sub>3</sub> is -N(R<sub>6</sub>)C(W)-; W is O; R<sub>6</sub> is hydrogen

30

Example (xv)-a A

4-Fluoro-2-methoxynitrobenzene was processed as in Example (x)-a B and purified by flash chromatography on silica gel with 1:70:30 ethyl acetate/pentane/dichloromethane to provide the desired compound.

5

Example (xv)-a B

Example (xv)-a A was processed by Method 3 to provide the desired compound.  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.73 (s, 1H), 6.99 (d, 1H), 6.85 (dd, 1H), 6.7 (d, 1H, 3.88 (s, 3H).

10

Example (xv)-a Compounds of Formula I

Example (xv)-a B was processed by Method 5, 6, or 7 to provide the desired compounds of Formula I.

15

Example (xvi)-a

Compounds of Formula I where

R<sub>1</sub> and R<sub>3</sub> are CF<sub>3</sub>; R<sub>2</sub> is H; Z is carbon; Q is 1,4-disubstituted phenyl; R<sub>4</sub> is hydrogen; R<sub>5</sub> is halo; L<sub>3</sub> is -N(R<sub>6</sub>)C(W)-; W is O; R<sub>6</sub> is hydrogen

and

Example (xvii)-a R<sub>1</sub> and R<sub>3</sub> are CF<sub>3</sub>; R<sub>2</sub> is H; Z is carbon; Q is 1,4-disubstituted phenyl; R<sub>4</sub> is hydrogen; R<sub>5</sub> is substituted heterocycle; L<sub>3</sub> is -N(R<sub>6</sub>)C(W)-; W is O; R<sub>6</sub> is hydrogen

20

Example (xvi)-a A and Example (xvii)-a A

2,4-Difluoronitrobenzene was processed as in Example (x)-a B to provide a mixture of the desired compounds.

25

Example (xvi)-a B and Example (xvii)-a B

Examples (xvi)-a A and Example (xvii)-a A were processed by Method 3 to provide a mixture the desired compounds.

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) (mixture of (xvi)-a B and (xvii)-a B ) (xvi)-a B: δ 7.74 (s, 1H), 7.19 (m, 2H), 6.84 (dd, 1H), 5.18 (s, 2H) and (xvii)-a B: δ 7.74 (s, 1H), 7.72 (s, 1H), 7.52 (d, 1H), 7.48 (dd, 1H), 6.94 (d, 1H), 5.95 (s, 2H).

30

Example (xvi)-a and Example (xvii)-a

Compounds of Formula I

Example (xvi)-a B and Example (xvii)-a B were processed by Method 5, 6, or 7 to provide a mixture the desired compounds of Formula I which were separated by column chromatography.

5

(xviii)-aCompounds of Formula I where

R<sub>1</sub> is CH<sub>3</sub>; R<sub>2</sub> is H; R<sub>3</sub> is CF<sub>3</sub>; Z is carbon; Q is 1,4-disubstituted phenyl; R<sub>4</sub> and R<sub>5</sub> are hydrogen; L<sub>3</sub> is -N(R<sub>6</sub>)C(W)-; W is O; and R<sub>6</sub> is H

and

10

(xix)-a

R<sub>1</sub> is CF<sub>3</sub>; R<sub>2</sub> is H; R<sub>3</sub> is CH<sub>3</sub>; Z is carbon; Q is 1,4-disubstituted phenyl; R<sub>4</sub> and R<sub>5</sub> are hydrogen; L<sub>3</sub> is -N(R<sub>6</sub>)C(W)-; W is O; and R<sub>6</sub> is H

Example (xviii)-a A and Example (xix)-a A

15

A solution of 4-nitrophenylhydrazine (5 g, 32.5 mmol) and 1,1,1-trifluoro-2,4-pentanedione (4.97 g, 32.5 mmol) in ethanol (200 mL) was treated with concentrated sulfuric acid (1 mL), refluxed for 1 hour, and concentrated. The residue was dissolved in ethyl acetate, washed with water and brine, dried (MgSO<sub>4</sub>), and concentrated. The residue was purified on silica gel eluting with 3.5% ethyl acetate/pentane to provide the desired compounds.

20

(xviii)-a A: <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.42 (d, 2H), 7.9 (d, 2H), 7.1 (s, 1H), 2.33 (s, 3H) and (xix)-a A: <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.42 (d, 2H), 7.94 (d, 2H), 6.88 (s, 1H), 2.46 (s, 3H).

25

Example (xviii)-a B

A solution of Example (xviii)-a A was processed by Method 3 to provide the desired compound.

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.05 (d, 2H), 6.77 (s, 1H), 6.62 (d, 2H), 2.24 (s, 3H).

30

Example (xix)-a B

Example (xix)-a A was processed by Method 3 to provide the desired compound.

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.13 (d, 2H), 6.65 (s, 1H), 6.64 (d, 2H), 5.48 (s, 1H), 2.24 (s, 3H).

(xviii)-a

Compounds of Formula I

and

(xix)-a

Compounds of Formula I

Example (xviii)-a B and Example (xix)-a B were each processed by Method 5, 6, or 7 to provide the desired compounds of Formula I.

(xx)-a

Compounds of Formula I where

R<sub>1</sub> is CH<sub>3</sub>; R<sub>2</sub> and R<sub>3</sub> are H; Z is carbon; Q is 1,4-disubstituted phenyl; R<sub>4</sub> and R<sub>5</sub> are hydrogen; L<sub>3</sub> is -N(R<sub>6</sub>)C(W)-; W is O; and R<sub>6</sub> is H

and

(xxi)-a

R<sub>1</sub> and R<sub>2</sub> are H; R<sub>3</sub> is CH<sub>3</sub>; Z is carbon; Q is 1,4-disubstituted phenyl; R<sub>4</sub> and R<sub>5</sub> are hydrogen; L<sub>3</sub> is -N(R<sub>6</sub>)C(W)-; W is O; and R<sub>6</sub> is H

Example (xx)-a A and (xxi)-a A

4-Nitrophenylhydrazine and acetylacetaldehyde dimethylacetal were processed as in Example (xviii)-a A/Example (xix)-a A and purified by flash chromatography on silica gel with 0.5:5:5 ethyl acetate/dichloromethane/pentane to provide the desired compounds. (xx)-a A: <sup>1</sup>H NMR (CDCl<sub>3</sub>, 500 MHz) δ 8.32 (d, 2H), 7.93 (d, 1H), 7.84 (d, 2H), 6.36 (d, 1H), 2.4 (s, 3H) and (xxi)-a A: <sup>1</sup>H NMR (CDCl<sub>3</sub>, 500 MHz) δ 8.36 (d, 2H), 7.73 (d, 2H), 7.64 (d, 1H), 6.28 (d, 1H), 2.48 (s, 3H).

Example (xx)-a B

Example (xx)-a A was processed by Method 3 to provide the desired compound. <sup>1</sup>H NMR (CDCl<sub>3</sub>, 300 MHz) δ 7.68 (d, 1H), 7.05 (d, 2H), 6.75 (d, 2H), 6.20 (d, 1H), 2.38 (s, 3H).

Example (xxi)-a B

Example (xxi)-a A was processed by Method 3 to provide the desired compound. <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.42 (s, 1H), 7.08 (dd, 2H), 6.62 (dd, 2H), 6.17 (s, 1H), 5.3 (br s, 2H), 2.22 (s, 3H).



(xx)-a

Compounds of Formula I

and

(xxi)-a

Compounds of Formula I

Example (xx)-a B and Example (xxi)-a B were each processed by Method 5, 6, or 7 to provide the desired compounds of Formula I.

Example (xxii)-a

Compounds of Formula I where

R<sub>1</sub> is CF<sub>3</sub>; R<sub>2</sub> and R<sub>3</sub> are H; Z is carbon; Q is 1,4-disubstituted phenyl; R<sub>4</sub> and R<sub>5</sub> are hydrogen; L<sub>3</sub> is -N(R<sub>6</sub>)C(W)-; W is O; and R<sub>6</sub> is H

Example (xxii)-a A

A solution of 3-trifluoromethylpyrazole (1 g, 7.4 mmol) in DMF (10 mL) at 0 °C was treated with NaH (60% in oil, 382 mg, 9.6 mmol), stirred at room temperature for 30 minutes, treated with 4-fluoronitrobenzene (1.04 g, 7.4 mmol), stirred for 18 hours, treated with water, and extracted with ethyl acetate. The extract was washed with brine, dried (MgSO<sub>4</sub>) and concentrated. The residue was purified on silica gel with 9% ethyl acetate/pentane to provide the desired compound.

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.9 (m, 1H), 8.43 (d, 2H), 8.2 (d, 2H), 7.2 (d, 1H).

Example (xxii)-a B

Example (xxii)-a A was processed by Method 3 to provide the desired compound. <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.42 (m, 1H), 7.45 (d, 2H), 6.92 (d, 1H), 6.65 (d, 2H), 5.4 (m, 2H).

Example (xxii)-a

Compounds of Formula I

Example (xxii)-a B was processed by Method 5, 6, or 7 to provide the desired compounds of Formula I.

Example (xxiii)-a

Compounds of Formula I where

R<sub>1</sub> is CF<sub>3</sub>; R<sub>2</sub> is H; R<sub>3</sub> is hydroxyl; Z is carbon; Q is 1,4-disubstituted phenyl; R<sub>4</sub> and R<sub>5</sub> are hydrogen; L<sub>3</sub> is -N(R<sub>6</sub>)C(W)-; W is O; and R<sub>6</sub> is H

5

Example (xxiii)-a A

A solution of ethyl 4,4,4-trifluoroacetoacetate (10 g, 54 mmol) and 4-nitrophenylhydrazine (8.3 g, 54 mmol) in ethanol (200 mL) was treated with concentrated sulfuric acid (0.5 ml), refluxed for 25 minutes, and concentrated. The residue was dissolved in ethyl acetate, washed with brine, dried (MgSO<sub>4</sub>), and concentrated to provide the desired compound.

10

<sup>1</sup>H NMR (CDCl<sub>3</sub>, 300 MHz) δ 9.8 (s, 1H), 8.21 (d, 2H), 7.23 (d, 2H), 4.27 (q, 2H), 3.56 (s, 2H), 1.24 (t, 3H).

Example (xxiii)-a B

A solution of Example (xxiii)-a A (7.7 g, 24.2 mmol) in 2:1 ethanol:dichloromethane (300 mL) was treated with anhydrous K<sub>2</sub>CO<sub>3</sub> (6.7g, 48.4 mmol), stirred at room temperature for 18 hours, and concentrated. The residue was neutralized with dilute HCl, extracted with ethyl acetate, washed with brine, dried (MgSO<sub>4</sub>), and concentrated. The residue was flash chromatographed on silica gel with 5% methanol/dichloromethane to provide the desired compound.

15

20

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.38 (d, 2H), 8.15 (d, 2H), 5.9 (s, 1H).

Example (xxiii)-a C

Example (xxiii)-a B was processed by Method 3 to provide the desired compound.

25

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.24 (d, 2H), 6.62 (d, 2H), 5.85 (s, 1H), 5.4 (m, 2H).

Example (xxiii)-aCompounds of Formula I

Example (xxiii)-a C was processed by Method 5, 6, or 7 to provide the desired compounds of Formula I.

30

Example (xxiv)-aCompounds of Formula I where

R<sub>1</sub> and R<sub>3</sub> are CF<sub>3</sub>; R<sub>2</sub> is H; Z is carbon; O is 1,4-disubstituted pyridine; R<sub>4</sub> and R<sub>5</sub> are hydrogen; L<sub>3</sub> is -N(R<sub>6</sub>)C(W)- where W is O and R<sub>6</sub> is H

Example (xxiv)-a A

5 N-3,5-bis(trifluoromethyl)pyrazole was processed as in Example (x)-a B but substituting 2-chloro-5-nitropyridine for Example (x)-a A to provide the desired compound. <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.39 (d, 1H), 8.88 (dd, 1H), 8.21 (d, 2H), 8.02 (s, 1H).

Example (xxiv)-a B

10 Example (xxiv)-a A was processed by Method 3 to provide the desired compound. <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.82(d, 1H), 7.72 (s, 1H), 7.43 (d, 1H), 7.14 (dd, 1H), 5.90 (s, 2H).

Example (xxiv)-a

15 Compounds of Formula I

Example (xxiv)-a B was processed by Method 5, 6, or 7 to provide the desired compounds of Formula I.

Example (xxv)-a

20 Compounds of Formula I where

R<sub>1</sub> and R<sub>3</sub> are CH<sub>3</sub>; Z is nitrogen; O is 1,4-disubstituted phenyl; R<sub>4</sub> and R<sub>5</sub> are hydrogen; L<sub>3</sub> is -N(R<sub>6</sub>)C(W)- where W is O and R<sub>6</sub> is H

Example (xxv)-a A

25 A solution of 4-nitrophenylhydrazine (2 g, 13.1 mmol) and diacetamide (1.32 g, 13.1 mmol) in ethanol (80 mL) was treated with concentrated sulfuric acid (0.5 mL), refluxed for 1 hour, and concentrated. The residue was dissolved in ethyl acetate, washed with water and brine, dried (MgSO<sub>4</sub>) and concentrated. Purification of the residue by flash chromatography on silica gel with 3:2:5 ethyl acetate/pentane/dichloromethane provided the desired  
30 compound. <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.4 (d, 2H) 7.9 (d, 2H), 2.54 (s, 3H), 2.33 (s, 3H).

Example (xxv)-a B

Example (xxv)-a A was processed by Method 3 to provide the desired compound.

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.18 (d, 2H), 6.7 (d, 1H), 5.45 (s, 2H), 2.35 (s, 3H), 2.27 (s, 3H).

Example (xxv)-a

5

Compounds of Formula I

Example (xxv)-a B was processed by Method 5, 6, or 7 to provide the desired compounds of Formula I.

Example 1

10

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]cyclopropanecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 204-205 °C;

MS (DCI/NH<sub>3</sub>) m/e 381 (M+NH<sub>4</sub>)<sup>+</sup>;

15

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.52 (s, 1H), 7.79 (d, 2H), 7.78 (s, 1H), 7.53 (d, 2H), 1.81 (m, 1H), 0.85 (d, 4H).

Example 2

20

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,2,3,3-tetramethylcyclopropanecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 171-172 °C;

MS (DCI/NH<sub>3</sub>) m/e 437 (M+NH<sub>4</sub>)<sup>+</sup>;

25

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.78 (s, 1H), 7.77 (d, 2H), 7.5 (d, 2H), 1.33 (s, 1H), 1.26 (s, 6H), 1.2 (s, 6H).

Example 3

30

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,2-dichloro-1-methylcyclopropanecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 143-145 °C;

MS (ESI-) m/e 445 (M-H)<sup>-</sup>;

<sup>1</sup>H NMR (CDCl<sub>3</sub>, 300 MHz) δ 7.65 (d, 2H), 7.50 (d, 3H), 7.15 (s, 1H), 2.35 (d, 1H), 1.65 (s, 3H), 1.45 (d, 1H).

#### Example 4

5     N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-oxo-6-pentyl-2H-pyran-3-carboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 140-141 °C;

10     MS (DCI/NH<sub>3</sub>) m/e 488 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.4 (d, 1H), 7.92 (d, 2H), 7.83 (s, 1H), 7.62 (d, 2H), 6.62 (d, 1H), 2.65 (t, 2H), 1.65 (m, 2H), 1.33 (m, 4H), 0.89 (t, 3H).

#### Example 5

15     N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3,5-difluorobenzenesulfonamide

Example (i)-a B was processed as in Example (iii)-a (Method 9) to provide the title compound.

MS (DCI/NH<sub>3</sub>) m/e 489 (M+NH<sub>4</sub>)<sup>+</sup>;

20     <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.19 (s, 1H), 8.03-7.95 (m, 1H), 7.79 (s, 1H), 7.60-7.55 (m, 1H), 7.52 (d, 2H), 7.33-7.29 (m, 1H), 7.28 (d, 2H).

#### Example 6

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-cyclohexene-1-carboxamide

25     Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 146-148 °C;

MS (ESI-) 402 (M-H)<sup>-</sup>;

<sup>1</sup>H NMR (CDCl<sub>3</sub>, 300 MHz) δ 7.65 (d, 2H), 7.55 (br s, 1H), 7.45 (d, 2H), 7.05 (s, 1H), 4.78 (m, 1H), 2.40-2.20 (m, 4H), 1.80-1.60 (m, 4H).

30

#### Example 7

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-methylcyclopropanecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 172-173 °C;  
MS (DCI/NH<sub>3</sub>) m/e 395 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.8 (s, 1H), 7.78 (d, 2H), 7.54 (d, 2H), 1.57 (m, 1H), 1.27 (m, 1H), 1.12 (d, 3H), 1.05 (m, 1H), 0.7 (m, 1H);

5

#### Example 8

#### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-(3,5-dichlorophenoxy)-2-furancarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 152-153 °C;  
MS (DCI/NH<sub>3</sub>) m/e 551 (M+H)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.45 (s, 1H), 7.95 (d, 2H), 7.82 (s, 1H), 7.6 (d, 2H), 7.55 (t, 1H), 7.47 (d, 1H), 7.4 (d, 2H), 6.15 (d, 1H).

15

#### Example 9

#### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-methyl-2-cyclohexene-1-carboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 108-110 °C;  
MS (ESI-) m/e 416 (M-H)<sup>-</sup>;  
<sup>1</sup>H NMR (CDCl<sub>3</sub>, 300 MHz) δ 7.70 (d, 3H), 7.43 (d, 2H), 7.05 (s, 1H), 5.90-5.65 (m, 2H), 2.63-2.45 (m, 1H), 2.20-1.85 (m, 4H), 1.60-1.60 (m, 1H), 1.25 (s, 3H).

25

#### Example 10

#### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-cyclopentene-1-carboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 174-175 °C;  
MS (DCI/NH<sub>3</sub>) m/e 407 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.95 (s, 1H), 7.90 (d, 2H), 7.79 (s, 1H), 7.55 (d, 2H), 6.78 (m, 1H), 2.64-2.46 (m, 4H), 1.93 (m, 2H).

Example 11N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-methoxycyclohexanecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

5 mp 145-147 °C;

MS (DCI/NH<sub>3</sub>) m/e 436 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (CDCl<sub>3</sub>, 300 MHz) (diastereomers) δ 7.85 (br s, 1H), 7.70 (m, 4H), 7.45 (m, 4H), 7.35 (br s, 1H), 7.05 (s, 2H), 3.65 (m, 1H), 3.40 (s, 3H), 3.35 (s, 3H), 3.26 (m, 1H), 2.65 (m, 1H), 2.45-2.25 (m, 1H), 2.15-1.85 (m, 8H), 1.8-1.3 (m, 8H).

10

Example 12N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-butyramide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

15 mp 220-221 °C;

MS (DCI/NH<sub>3</sub>) m/e 379 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.82 (s, 1H), 7.79 (d, 2H), 7.57 (d, 2H), 2.08 (s, 3H).

Example 13

20 ethyl 3-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]carbonyl]amino]-benzoate

Example (i)-a B was processed as in Example (ii)-a (Method 8) to provide the title compound.

mp 211-212 °C;

25 MS (DCI/NH<sub>3</sub>) m/e 504 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.09 (s, 1H), 8.46 (t, 1H), 8.10 (s, 1H), 7.98 (d, 4H), 7.95 (dt, 1H), 7.84 (d, 2H), 4.68 (q, 2H), 1.67 (t, 3H).

Example 14

30 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-furancarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 206-207 °C;

MS (DCI/NH<sub>3</sub>) m/e 390 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.25 (s, 1H), 8.43 (s, 1H), 7.95 (d, 2H), 7.83 (s, 2H), 7.6 (d, 2H), 7.03 (s, 1H).

#### Example 15

5     N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-methyl-3-nitrobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 194-195 °C;

MS (DCI/NH<sub>3</sub>) m/e 476 (M+NH<sub>4</sub>)<sup>+</sup>;

10     <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.95 (s, 1H), 8.04 (d, 1H), 7.95 (d, 2H), 7.85 (d, 1H), 7.82 (s, 1H), 7.64 (d, 2H), 7.6 (t, 1H), 2.48 (s, 3H).

#### Example 16

15     N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(3-cyanophenyl)urea

Example (i)-a B was processed as in Example (ii)-a (Method 8) to provide the title compound.

mp 204-205 °C;

MS (DCI/NH<sub>3</sub>) m/e 457 (M+NH<sub>4</sub>)<sup>+</sup>;

20     <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.24 (s, 1H), 9.16 (s, 1H), 7.98 (t, 1H), 7.79 (s, 1H), 7.73-7.65 (m, 3H), 7.54 (d, 2H), 7.43 (dd, 2H).

#### Example 17

25     N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-hydroxycyclopropanecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 198-200 °C;

MS (DCI/NH<sub>3</sub>) m/e 397 (M+NH<sub>4</sub>)<sup>+</sup>;

30     <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.22 (s, 1H), 7.98 (d, 2H), 7.81 (s, 1H), 7.54 (d, 2H), 6.64 (s, 1H), 1.19 (m, 1H), 1.1 (t, 2H), 1.0 (m, 1H).

#### Example 18

N-[4[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]cycloheptanecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.



mp 174-175 °C;

MS (DCI) m/e 420 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.15 (s, 1H), 7.8 (s, 1H), 7.8 (d, 2H), 7.52 (d, 2H), 1.4-1.9 (m, 13H).

5

#### Example 19

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-benzofurancarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

10 mp 213-215 °C;

MS (DCI/NH<sub>3</sub>) m/e 440 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.87 (s, 1H), 8.05 (d, 2H), 7.86 (s, 1H), 7.85 (s, 1H), 7.86 (d, 1H), 7.76 (d, 1H), 7.64 (d, 2H), 7.55 (t, 1H), 7.4 (t, 1H).

15

#### Example 20

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-fluoro-1H-indole-2-carboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 253-255 °C;

20 MS (DCI/NH<sub>3</sub>) m/e 457 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.95 (s, 1H), 10.58 (s, 1H), 8.03 (d, 2H), 7.64 (d, 2H), 7.84 (s, 1H), 7.45-7.54 (m, 3H), 7.12 (dt, 1H).

#### Example 21

##### (E)-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-(2-chlorophenyl)-2-propenamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 173-175 °C;

30 MS (DCI/NH<sub>3</sub>) m/e 460 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.7 (s, 1H), 7.94 (d, 1H), 7.92 (d, 2H), 7.83 (s, 1H), 7.81 (m, 1H), 7.61 (d, 2H), 7.59 (m, 1H), 7.47 (m, 2H), 6.93 (d, 1H).

#### Example 22

2-Benzoyl-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide Example

(i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 204-205 °C;

MS (DCI/NH<sub>3</sub>) m/e 521 (M+NH<sub>4</sub>)<sup>+</sup>;

5 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.9 (d, 3H), 7.8 (s, 1H), 7.69-7.57 (m, 2H), 7.53 (d, 2H), 7.42 (d, 2H), 7.35-7.22 (m, 4H).

Example 233a(S)-(3aα,4β,6aα)-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]hexahydro-2-oxo-1H-thienof[3,4-d]imidazole-4-pentanamide

10

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 185-186 °C;

MS (ESI) m/e 522 (M+H)<sup>+</sup>;

15 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.22 (s, 1H), 7.8 (d, 2H), 7.79 (s, 1H), 7.53 (d, 2H), 6.41 (s, 1H), 6.33 (s, 1H), 4.31 (m, 1H), 4.15 (m, 1H), 3.14 (m, 1H), 2.83 (dd, 1H), 2.59 (d, 1H), 2.37 (t, 2H), 1.35-1.7 (m, 6H).

20

158406 Example 24N-4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(4-chlorophenyl)benzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 183-185 °C;

25 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.69 (s, 1H), 8.23-8.10 (m, 1H), 8.07-8.03 (m, 4H), 7.87 (s, 1H), 7.86-7.72 (m, 4H);

MS (DCI/NH<sub>3</sub>) m/e 451(M+NH<sub>4</sub>)<sup>+</sup>.

Example 25N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-iodobenzamide

30

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 192-193 °C;

MS (DCI/NH<sub>3</sub>) m/e 543 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.32 (dd, 1H), 7.99 (d, 4H), 7.83 (s, 1H), 7.62 (d, 2H), 7.37 (t, 1H).

Example 26

5     N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]bicyclo[2.2.1]hept-5-ene-2-carboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

MS (DCI/NH<sub>3</sub>) m/e 433 (M+NH<sub>4</sub>)<sup>+</sup>;

10     <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.12 (s, 1H), 7.80 (s, 1H), 7.78 (d, 2H), 7.51 (d, 2H), 6.19 (dd, 1H) 5.88 (dd, 1H), 3.11-3.05 (m, 1H), 2.89 (s, 1H), 1.88-1.80 (m, 1H), 1.43 (dd, 1H), 1.34 (s, 2H).

Example 27

15     N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-methylcyclohexanecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

MS (DCI/NH<sub>3</sub>) m/e 437 (M+NH<sub>4</sub>)<sup>+</sup>;

20     <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.5 (s, 1H), 7.8 (d, 2H), 7.8 (s, 1H), 7.5 (d, 2H), 1.91 (m, 4H), 1.6-1.5 (m, 2H), 1.4-1.2 (m, 4H), 0.9 (d, 3H).

Example 28

phenylmethyl [1-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]carbonyl]propyl]carbamate

25     Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 158-160 °C;

MS (DCI/NH<sub>3</sub>) m/e 515 (M+H)<sup>+</sup>;

30     <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.38 (s, 1H), 7.82 (d, 2H), 7.8 (s, 1H), 7.62 (d, 1H), 7.55 (d, 2H), 7.3-7.4 (m, 5H), 5.05 (s, 2H), 4.0-4.14 (m, 1H), 1.6-1.8 (m, 2H), 0.93 (t, 3H).

Example 29

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-cyclohexene-1-carboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 177-178 °C;

MS (DCI/NH<sub>3</sub>) m/e 421 (M+NH<sub>4</sub>)<sup>+</sup>;

5 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.91 (d, 2H), 7.88 (s, 1H), 7.63 (d, 2H), 5.80 (s, 2H), 2.75 (m, 1H), 2.35-2.20 (m, 2H), 2.22-1.97 (m, 2H), 2.05-1.99 (m, 1H), 1.77-1.62 (m, 1H).

#### Example 30

##### 4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(4-fluorophenyl)benzamide

10 Example (v)-a C was processed as in Example (v)-a (Method 11) to provide the title compound.

mp 194-195 °C;

MS (DCI/NH<sub>3</sub>) m/e 417 (M+H)<sup>+</sup>;

15 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.58 (s, 1H), 8.15 (d, 2H), 7.9 (s, 1H), 7.81 (d, 2H), 7.8 (d, 2H), 7.23 (t, 2H).

#### Example 31

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(3-nitrophenyl)urea

20 Example (i)-a B was processed as in Example (ii)-a (Method 8) to provide the title compound.

mp 203-204 °C;

MS (DCI/NH<sub>3</sub>) m/e 477 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.42 (s, 1H), 9.38 (s, 1H), 8.58 (t, 1H), 7.84 (d, 1H), 7.80 (s, 1H), 7.77 (d, 1H), 7.70 (d, 2H), 7.60 (d, 1H), 7.53 (d, 2H).

25

#### Example 32

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(4-fluorophenyl)urea

Example (i)-a B was processed as in Example (ii)-a (Method 8) to provide the title compound.

30 mp 201-202 °C;

MS (DCI/NH<sub>3</sub>) m/e 450 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.50 (s, 1H), 9.21 (s, 1H), 8.19 (s, 1H), 8.07 (d, 2H), 7.96-7.83 (m, 4H), 7.55 (t, 2H).

Example 33

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-[4-(trifluoromethyl)phenyl]urea

Example (i)-a B was processed as in Example (ii)-a (Method 8) to provide the title compound.

5 mp 210-212 °C;

MS (DCI/NH<sub>3</sub>) m/e 516 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.11 (s, 1H), 9.01 (s, 1H), 7.78 (s, 1H), 7.67 (d, 2H), 7.59 (d, 2H), 7.53 (d, 2H), 7.31 (d, 2H).

Example 34

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(3,5-dimethylphenyl)urea

Example (i)-a B was processed as in Example (ii)-a (Method 8) to provide the title compound.

mp >230 °C;

15 MS (DCI/NH<sub>3</sub>) m/e 460 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.03 (s, 1H), 8.66 (s, 1H), 7.80 (s, 1H), 7.65 (d, 2H), 7.50 (d, 2H), 7.09 (s, 2H), 6.65 (s, 1H), 2.24 (s, 6H).

Example 35

20 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-methylcyclopropanecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 109-110 °C;

MS(DCI/NH<sub>3</sub>) m/e 395 (M+NH<sub>4</sub>)<sup>+</sup>;

25 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.47 (s, 1H), 7.86 (d, 2H), 7.79 (s, 1H), 7.53 (d, 2H), 1.43 (s, 3H), 0.92 (m, 2H), 0.68 (m, 2H).

Example 36

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-phenylurea

30 Example (i)-a B was processed as in Example (ii)-a (Method 8) to provide the title compound.

mp 185-187 °C;

MS (DCI/NH<sub>3</sub>) m/e 432 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.07 (s, 1H), 8.81 (s, 1H), 7.80 (s, 1H), 7.66 (d, 2H), 7.52 (d, 2H), 7.49 (d, 2H), 7.30 (t, 2H), 7.00 (t, 1H).

#### Example 38

5     N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(3-chloro-2-methylphenyl)urea

Example (i)-a B was processed as in Example (ii)-a (Method 8) to provide the title compound.

mp 193-196 °C;

MS (DCI/NH<sub>3</sub>) m/e 480 (M+NH<sub>4</sub>)<sup>+</sup>;

10     <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.39 (s, 1H), 8.28 (s, 1H), 7.78 (s, 1H), 7.72 (t, 1H), 7.67 (d, 2H), 7.52 (d, 2H), 7.22- 7.15 (m, 2H), 2.31 (s, 3H).

#### Example 39

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-[4-(butyloxyphenyl)urea

15     Example (i)-a B was processed as in Example (ii)-a (Method 8) to provide the title compound.

mp 193-196 °C;

MS (DCI/NH<sub>3</sub>) m/e 504 (M+NH<sub>4</sub>)<sup>+</sup>;

20     <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.10 (s, 1H), 8.71 (s, 1H), 7.91 (s, 1H), 7.77 (d, 2H), 7.63 (d, 2H), 7.49 (d, 2H), 7.01 (d, 2H), 4.06 (t, 2H), 1.83-1.78 (m, 2H), 1.57-1.53 (m, 2H), 1.06 (t, 3H).

#### Example 40

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(2-methyl-3-nitrophenyl)urea

25     Example (i)-a B was processed as in Example (ii)-a (Method 8) to provide the title compound.

mp 235-236 °C;

MS (DCI/NH<sub>3</sub>) m/e 491 (M+NH<sub>4</sub>)<sup>+</sup>;

30     <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.46 (s, 1H), 8.46 (s, 1H), 8.05 (dd, 1H), 7.79 (s, 1H), 7.68 (d, 2H), 7.60 (dd, 1H), 7.54 (d, 2H), 7.43 (t, 1H), 2.31 (s, 3H).

#### Example 41

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(2-chloro-4-nitrophenyl)urea

Example (i)-a B was processed as in Example (ii)-a (Method 8) to provide the title compound.

mp 229-230 °C;

MS (ESI-) m/e 492 (M-H)<sup>-</sup>;

5 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.93 (s, 1H), 8.56 (d, 1H), 8.38 (d, 1H), 8.14 (dd, 1H), 7.80 (s, 1H), 7.70 (d, 2H), 7.57 (d, 2H).

#### Example 42

N-(4-acetylphenyl)-N'-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]urea

10 Example (i)-a B was processed as in Example (ii)-a (Method 8) to provide the title compound.

mp 230-231 °C;

MS (DCI/NH<sub>3</sub>) m/e 474 (M+NH<sub>4</sub>)<sup>+</sup>;

15 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.26 (s, 1H), 9.21 (s, 1H), 7.93 (d, 2H), 7.81 (s, 1H), 7.68 (d, 2H), 7.61 (d, 2H), 7.54 (d, 2H), 2.55 (s, 3H).

#### Example 43

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(4-methyl-2-nitrophenyl)urea

20 Example (i)-a B was processed as in Example (ii)-a (Method 8) to provide the title compound.

mp 213-214 °C;

MS (ESI-) m/e 472 (M-H)<sup>-</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.13 (s, 1H), 9.56 (s, 1H), 8.14 (d, 1H), 7.93 (d, 1H), 7.81 (s, 1H), 7.68 (d, 2H), 7.57-7.53 (m, 3H), 2.37 (s, 3H).

25

#### Example 44

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-methyl-2-thiophenecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

30 mp 200-202 °C;

MS (DCI/NH<sub>3</sub>) m/e 437 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.0 (d, 2H), 7.9 (d, 1H), 7.8 (s, 1H), 7.6 (d, 2H), 7.0 (d, 1H), 3.3 (s, 3H).

Example 45N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(4-bromo-2,6-dimethylphenyl)urea

Example (i)-a B was processed as in Example (ii)-a (Method 8) to provide the title  
5 compound.  
mp >230 °C;  
MS m/e (ESI-) m/e 519 (M-H)<sup>-</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.20 (s, 1H), 7.93 (s, 1H), 7.79 (s, 1H), 7.65 (d, 2H), 7.48  
(d, 2H), 7.33 (s, 1H), 2.22 (s, 6H).

Example 46N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-(1H-pyrrol-1-yl)benzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the  
title compound.  
15 mp 249-252 °C;  
MS (DCI/NH<sub>3</sub>) 482 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.58 (br s, 1H), 8.04 (d, 2H), 8.01 (d, 2H), 7.81 (d, 2H),  
7.80 (s, 1H), 7.61 (d, 2H), 7.56 (t, 2H), 6.37 (t, 2H).

Example 47N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-heptylurea

Example (i)-a B was processed as in Example (ii)-a (Method 8) to provide the title  
compound.  
mp 129-130 °C;  
25 MS (DCI/NH<sub>3</sub>) m/e 454 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.58 (d, 2H), 7.45 (s, 1H), 7.40 (d, 2H), 3.18 (t, 2H), 2.60  
(quintet, 4H), 1.40-1.25 (m, 6H), 0.90 (t, 3H).

Example 48N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(4-chloro-2-nitrophenyl)urea

Example (i)-a B was processed as in Example (ii)-a (Method 8) to provide the title  
compound.  
mp 225-227 °C;  
MS (DCI/NH<sub>3</sub>) m/e 511 (M+NH<sub>4</sub>)<sup>+</sup>;



<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.69 (s, 1H), 8.30 (d, 1H), 8.17 (d, 1H), 7.82 (s, 1H), 7.85-7.78 (m, 1H), 7.68 (d, 2H), 7.56 (d, 2H).

#### Example 49

5 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-7-methoxy-2-benzofurancarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 109-110 °C;

MS (DCI/NH<sub>3</sub>) m/e 487 (M+NH<sub>4</sub>)<sup>+</sup>;

10 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.0 (d, 2H), 7.8 (s, 2H), 7.6 (d, 2H), 7.4 (dd, 1H), 7.3 (t, 1H), 7.1 (dd, 1H), 4.0 (s, 3H).

#### Example 50

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-2-methyl-5-nitrophenyl)urea

15 Example (i)-a B was processed as in Example (ii)-a (Method 8) to provide the title compound.

mp >235 °C;

MS (DCI/NH<sub>3</sub>) m/e 473 (M+H)<sup>+</sup>;

20 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.62 (d, 1H), 8.91 (d, 1H), 8.40 (s, 1H), 7.84 (dd, 1H), 7.78 (s, 1H), 7.70 (d, 2H), 7.55 (d, 2H), 7.50 (d, 1H), 2.40 (s, 3H).

#### Example 51

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-(hydroxymethyl)benzamide

25 Example 129 was reduced with DIBAL-H as described in Example 107 to provide the title compound.

mp 160-162 °C;

MS (DCI/NH<sub>3</sub>) m/e 447 (M+NH<sub>4</sub>)<sup>+</sup>;

30 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.57 (s, 1H), 8.01 (d, 2H), 7.93 (s, 1H), 7.85 (d, 1H), 7.81 (s, 1H), 7.6 (d, 2H), 7.57 (d, 1H), 7.5 (t, 1H), 5.35 (t, 1H), 4.6 (d, 2H).

#### Example 52

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-cyanoacetamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 140-143 °C;  
MS (DCI/NH<sub>3</sub>) m/e 380 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.6 (s, 1H), 7.8 (s, 1H), 7.7 (d, 2H), 7.6 (d, 2H), 4.0 (s, 2H).

5

#### Example 53

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-cyclohexane-1-carboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

10 mp 126-128 °C;  
MS (DCI/NH<sub>3</sub>) m/e 421 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.3 (br, s, 1H), 7.8 (s, 1H), 7.8 (d, 2H), 7.6 (d, 2H), 5.7 (s, 2H), 2.6 (m, 1H), 2.2 (m, 2H), 2.1 (m, 2H), 1.9 (m, 1H), 1.5 (m, 1H).

15

#### Example 54

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-methylcyclohexanecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

MS (DCI/NH<sub>3</sub>) m/e 437 (M+NH<sub>4</sub>)<sup>+</sup>;  
20 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 12.0 (br, s, 1H), 7.8 (d, 2H), 7.8 (s, 1H), 7.5 (d, 2H), 2.4 (t, 1H), 1.9 (m, 4H), 1.4 (m, 4H), 1.3 (m, 1H), 0.9 (d, 3H).

#### Example 55

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-α-methoxy-α-(trifluoromethyl)benzeneacetamide

25

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 127-129 °C;  
MS (DCI/NH<sub>3</sub>) m/e 529 (M+NH<sub>4</sub>)<sup>+</sup>;  
30 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.0 (d, 2H), 7.8 (s, 1H), 7.6 (m, 4H), 7.5 (m, 3H), 3.6 (s, 3H).

#### Example 56

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]heptanamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 88-90 °C;

MS (DCI/NH<sub>3</sub>) m/e 425 (M+NH<sub>4</sub>)<sup>+</sup>;

5 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.2 (s, 1H), 7.8 (s, 1H), 7.8 (d, 2H), 7.6 (d, 2H), 2.4 (t, 2H), 1.6 (t, 2H), 1.3 (m, 6H), 0.9 (t, 3H).

#### Example 57

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-phenoxybenzamide

10 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 108-109 °C;

MS (DCI/NH<sub>3</sub>) m/e 509 (M+NH<sub>4</sub>)<sup>+</sup>;

15 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.7 (s, 1H), 7.9 (d, 2H), 7.8 (s, 1H), 7.7 (dd, 1H), 7.6-7.5 (m, 3H), 7.4-7.3 (m, 3H), 7.2-7.1 (m, 3H), 7.0 (d, 1H).

#### Example 58

##### 3-Amino-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide

20 Example 58 was prepared from Example 140 using a procedure analogous to that described for Example 59.

mp 203-204 °C;

MS (DCI/NH<sub>3</sub>) m/e 432 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.98 (d, 2H), 7.80 (s, 1H), 7.58 (d, 2H), 7.18 (t, 1H), 7.13-7.07 (m, 2H), 6.80-6.74 (m, 1H), 5.34 (s, 2H).

25

#### Example 59

##### 4-Amino-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide

30 To 15 mL of ethyl acetate and 100 mg of Example 93 was added 8 mg of 10% palladium on carbon catalyst under a nitrogen atmosphere. The mixture was stirred under hydrogen at room temperature for 20 hours, filtered and concentrated to provide a brown oil. The oil was chromatographed on silica gel with ethyl acetate/hexanes (20:80 then 30:70) to provide the title compound as a yellow oil.

mp >240 °C;

MS (DCI/NH<sub>3</sub>) m/e 415 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.97 (d, 2H), 7.83 (s, 1H), 7.75 (d, 2H), 7.55 (d, 2H), 6.62 (d, 2H), 5.84 (s, 2H).

#### Example 60

5        4-Azido-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 182-184 °C;

MS (DCI/NH<sub>3</sub>) m/e 458 (M+NH<sub>4</sub>)<sup>+</sup>;

10        <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.6 (s, 1H), 8.1 (d, 2H), 8.0 (d, 2H), 7.8 (s, 1H), 7.6 (d, 2H), 7.3 (d, 2H).

#### Example 61

15        N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-2-thiopheneacetamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 181-183 °C;

MS (DCI/NH<sub>3</sub>) m/e 437 (M+NH<sub>4</sub>)<sup>+</sup>;

20        <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.6 (s, 1H), 7.8 (d, 2H), 7.8 (s, 1H), 7.6 (d, 2H), 7.4 (dd, 1H), 7.0 (m, 2H), 3.9 (s, 2H).

#### Example 62

25        N-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-tricyclo[3.3.1.1<sup>3,7</sup>]-decanecarboximide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 213-214 °C;

MS (DCI/NH<sub>3</sub>) m/e 475 (M+NH<sub>4</sub>)<sup>+</sup>;

30        <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.4 (s, 1H), 7.9 (d, 2H), 7.8 (s, 1H), 7.5 (d, 2H), 2.1 (s, 3H), 1.9 (s, 6H), 1.7 (s, 6H).

#### Example 63

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N<sup>2</sup>-(1,1-dimethylethoxy)carbonyl]-L-asparagine, phenylmethyl ester

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 195-196 °C;

MS (DCI/NH<sub>3</sub>) m/e 601 (M+NH<sub>4</sub>)<sup>+</sup>;

5 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.4 (s, 1H), 7.8 (s, 1H), 7.8 (d, 2H), 7.4 (d, 2H), 7.3 (m, 5H), 5.1 (s, 2H), 4.5 (m, 1H), 2.9 (m, 1H), 2.7 (m, 1H), 1.4 (s, 9H).

#### Example 64

10 1,1-dimethylethyl [7-[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]-7-oxoheptyl]carbamate

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 86-88 °C;

MS (DCI/NH<sub>3</sub>) m/e 540 (M+NH<sub>4</sub>)<sup>+</sup>;

15 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.9 (s, 1H), 7.9 (d, 2H), 7.5 (d, 2H), 3.3 (m, 12H), 1.2 (s, 9H).

#### Example 65

20 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-(methylthio)propanamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 122-123 °C;

MS (DCI/NH<sub>3</sub>) m/e 415 (M+NH<sub>4</sub>)<sup>+</sup>;

25 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.4 (s, 1H), 7.9 (d, 2H), 7.8 (s, 1H), 7.6 (d, 2H), 2.9 (t, 2H), 2.7 (t, 2H), 2.2 (s, 3H).

#### Example 66

30 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-naphthylenecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 170-171 °C;

MS (DCI/NH<sub>3</sub>) m/e 467 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.0 (s, 1H), 8.2 (m, 1H), 8.1 (d, 1H), 8.0 (m, 3H), 7.8 (d, 1H), 7.8 (s, 1H), 7.6 (m, 5H).

Example 67N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-cyanobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the  
5 title compound.  
mp 169-171 °C;  
MS (DCI/NH<sub>3</sub>) m/e 442 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.8 (s, 1H), 8.2 (d, 2H), 8.1 (d, 2H), 8.0 (d, 2H), 7.8 (s,  
1H), 7.6 (d, 2H).

Example 68N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-phenylcyclopropanecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the  
title compound.  
15 mp 176-178 °C;  
MS (DCI/NH<sub>3</sub>) m/e 457 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.6 (s, 1H), 7.8 (d, 2H), 7.8 (s, 1H), 7.6 (d, 2H), 7.3 (m,  
2H), 7.2 (m, 3H), 2.4 (m, 1H), 2.1 (m, 1H), 1.6 (m, 1H), 1.4 (m, 1H).

Example 69N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-iodobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the  
title compound.  
mp 196-198 °C;  
25 MS (DCI/NH<sub>3</sub>) m/e 543 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.6 (s, 1H), 8.0 (d, 2H), 7.9 (d, 2H), 7.8 (s, 1H), 7.7 (d,  
2H), 7.6 (d, 2H).

Example 70N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-chloropropanamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the  
title compound.  
mp 144-145 °C;  
30 MS (DCI/NH<sub>3</sub>) m/e 403 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.4 (s, 1H), 7.8 (d, 2H), 7.8 (s, 1H), 7.6 (d, 2H), 3.9 (t, 2H), 2.9 (t, 2H).

#### Example 71

5        N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-methoxybenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 205-207 °C;

MS (DCI/NH<sub>3</sub>) m/e 447 (M+NH<sub>4</sub>)<sup>+</sup>;

10        <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.5 (s, 1H), 8.1 (d, 1H), 8.0 (d, 2H), 7.9 (s, 1H), 7.6 (d, 2H), 7.2-7.1 (m, 3H), 3.4 (s, 3H).

#### Example 72

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-ethylhexanamide

15        Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 127-128 °C;

MS (DCI/NH<sub>3</sub>) m/e 439 (M+NH<sub>4</sub>)<sup>+</sup>;

20        <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.2 (s, 1H), 7.9 (d, 2H), 7.8 (s, 1H), 7.5 (d, 2H), 2.3 (m, 1H), 1.6-1.2 (m, 8H), 0.9 (m, 6H).

#### Example 73

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-hydroxybenzamide

25        Example 71 was treated with BBr<sub>3</sub> as described in Example 180B to provide the title compound.

mp >245 °C;

MS (DCI/NH<sub>3</sub>) m/e 433 (M+NH<sub>4</sub>)<sup>+</sup>;

30        <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.0 (d, 2H), 7.9 (d, 2H), 7.8 (s, 1H), 7.6 (d, 2H), 6.8 (d, 2H).

#### Example 74

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-(hexyloxy)benzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 153-155 °C;

MS (DCI/NH<sub>3</sub>) m/e 517 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.4 (s, 1H), 8.0 (m, 4H), 7.8 (s, 1H), 7.6 (d, 2H), 7.1 (d, 2H), 4.1 (t, 2H), 1.8-1.7 (m, 2H), 1.5-1.4 (m, 2H), 1.4-1.3 (m, 4H), 0.9-0.8 (m, 3H).

5

#### Example 75

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-methylbenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

10 mp 137-139 °C;

MS (DCI/NH<sub>3</sub>) m/e 431 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.5 (s, 1H), 8.0 (d, 2H), 7.9 (s, 1H), 7.8 (m, 2H), 7.6 (d, 2H), 7.4 (dd, 2H), 2.4 (s, 3H).

15

#### Example 76

##### 2-(Acetyloxy)-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 159-161 °C;

20 MS (DCI/NH<sub>3</sub>) m/e 475 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.7 (s, 1H), 8.0 (d, 2H), 7.9 (s, 1H), 7.8 (dd, 1H), 7.6 (d, 2H), 7.4 (m, 1H), 7.3 (dd, 1H), 2.2 (s, 3H).

#### Example 77

25 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(4-bromo-2-methylphenyl)urea

Example (i)-a B was processed as in Example (ii)-a (Method 8) to provide the title compound.

mp 230-231 °C;

MS (DCI/NH<sub>3</sub>) m/e 474 (M+NH<sub>4</sub>)<sup>+</sup>;

30 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.26 (s, 1H), 9.21 (s, 1H), 7.93 (d, 2H), 7.81 (s, 1H), 7.68 (d, 2H), 7.61 (d, 2H), 7.54 (dd, 1H), 2.55 (s, 3H).

#### Example 78

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4,6-trimethylbenzamide



Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 203-205 °C;

MS (DCI/NH<sub>3</sub>) m/e 459 (M+NH<sub>4</sub>)<sup>+</sup>;

5 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.7 (s, 1H), 8.0 (d, 2H), 7.8 (s, 1H), 7.6 (d, 2H), 6.9 (s, 2H), 2.3 (s, 3H), 2.2 (s, 6H).

#### Example 79

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(4-chloro-3-nitrophenyl)urea

10 Example (i)-a B was processed as in Example (ii)-a (Method 8) to provide the title compound.

mp 207-209 °C;

MS (ESI-) m/e 492 (M-H)<sup>-</sup>;

15 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.42 (s, 1H), 9.32 (s, 1H), 8.33 (t, 1H), 7.81 (s, 1H), 7.72-7.63 (m, 4H), 7.55 (d, 2H).

#### Example 80

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-N-methylbenzamide

20 Example 91 was processed as in Example (iv)-a (Method 10) to provide the title compound.

MS (DCI/NH<sub>3</sub>) m/e 465 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 100 °C, 300 MHz) δ 7.58 (s, 1H), 7.47 (s, 4H), 7.40-7.23 (m, 4H), 3.38 (s, 3H).

#### Example 81

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-4-nitro-N-methylbenzamide

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-4-nitrobenzamide was processed as Example (i)-a in Example (iv)-a (Method 10) to provide the title compound.

MS (DCI/NH<sub>3</sub>) m/e 510 (M+NH<sub>4</sub>)<sup>+</sup>;

30 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.10-8.02 (m, 2H), 7.44-7.36 (m, 3H), 7.28 (d, 2H), 7.06 (s, 1H), 3.61 (s, 3H).

#### Example 82

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chlorobenzenemethanamine

Example (i)-a B was processed as in Example (vi)-a (Method 12) to provide the title compound.

mp 240 °C;

MS (DCI/NH<sub>3</sub>) m/e 420 (M+H)<sup>+</sup>;

5 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.70 (s, 1H), 7.54-7.47 (m, 1H), 7.45-7.41 (m, 1H), 7.38-7.32 (m, 2H), 7.25 (d, 2H), 6.90 (t, 1H), 6.67 (d, 2H), 4.40 (d, 2H).

#### Example 83

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-methyl-5-nitro-1H-pyrazole-4-  
10 carboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 214-216 °C;

MS (DCI/NH<sub>3</sub>) m/e 466 (M+NH<sub>4</sub>)<sup>+</sup>;

15 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.83 (s, 1H), 8.03 (s, 1H), 7.89 (d, 2H), 7.87 (s, 1H), 7.63 (d, 2H).

#### Example 84

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-fluorobenzenemethanamine

20 Example (i)-a B was processed as in Example (vi)-a (Method 12) to provide the title compound.

mp 92-94 °C;

MS (DCI/NH<sub>3</sub>) m/e 404 (M+H)<sup>+</sup> and 421 (M+NH<sub>4</sub>)<sup>+</sup>;

25 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.68 (s, 1H), 7.45-7.38 (m, 2H), 7.24-7.13 (m, 4H), 6.87 (t, 1H), 6.68 (d, 2H), 4.33 (d, 2H).

#### Example 85

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-bromobenzamide

30 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 205-207 °C;

MS (DCI/NH<sub>3</sub>) m/e 495 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.6 (s, 1H), 8.0 (d, 2H), 7.9 (d, 2H), 7.8 (s, 1H), 7.8 (d, 2H), 7.6 (d, 2H).

Example 86N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-(dimethylamino)benzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the  
5 title compound.

MS (DCI/NH<sub>3</sub>) m/e 441 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (CDCl<sub>3</sub>, 300 MHz) δ 8.1 (dd, 1H), 7.85 (d, 2H), 7.51 (m, 1H), 7.48 (d, 2H), 7.35 (t, 2H), 7.07 (s, 1H), 2.87 (s, 6H).

Example 88N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-(dimethylamino)benzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the  
10 title compound.

mp 180-181°C;

15 MS (DCI/NH<sub>3</sub>) m/e 443 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.00 (d, 2H), 7.82 (s, 1H), 7.60 (d, 2H), 7.35 (t, 1H), 7.24-7.20 (m, 2H), 6.98-6.95 (m, 1H), 2.98 (s, 6H).

Example 89N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-(trifluoromethyl)benzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the  
20 title compound.

mp 170-172 °C;

MS (DCI/NH<sub>3</sub>) m/e 485 (M+NH<sub>4</sub>)<sup>+</sup>;

25 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.8 (s, 1H), 8.2 (d, 2H), 8.0 (d, 2H), 7.9 (d, 2H), 7.8 (s, 1H), 7.6 (d, 2H).

Example 90N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-fluorobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the  
30 title compound.

mp 184-186 °C;

MS (DCI/NH<sub>3</sub>) m/e 435 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.6 (s, 1H), 8.1 (m, 2H), 8.0 (d, 2H), 7.8 (s, 1H), 7.6 (d, 2H), 7.4 (m, 2H).

#### Example 91

5      N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chlorobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 155-157 °C;

MS (DCI/NH<sub>3</sub>) m/e 451 (M+NH<sub>4</sub>)<sup>+</sup>;

10      <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.9 (s, 1H), 8.0 (d, 2H), 7.8 (s, 1H), 7.6 (d, 2H), 7.6-7.4 (m, 4H).

#### Example 92

15      N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 177-178 °C;

MS (DCI/NH<sub>3</sub>) m/e 417 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.0-7.9 (m, 4H), 7.6 (m, 3H), 7.5 (m, 3H).

20

#### Example 93

25      N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-nitrobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 185-188 °C;

MS (DCI/NH<sub>3</sub>) m/e 462 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (CDCl<sub>3</sub>, 300 MHz) δ 8.42 (d, 2H), 8.08 (d, 2H), 7.99 (br s, 1H), 7.85 (d, 2H), 7.56 (d, 2H), 7.09 (s, 1H).

30

#### Example 94

4-[3,5-Bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(4-fluorophenyl)benzenemethanamine

Example (vii)-a A was processed as in Example (vii)-a (Method 13) to provide the title compound.

mp 102-103 °C;

MS (DCI/NH<sub>3</sub>) m/e 421 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.83 (s, 1H), 7.57 (s, 4H), 6.9 (t, 2H), 6.55 (m, 2H), 6.3 (t, 1H), 4.37 (d, 2H).

5

Example 95

3-[4-[[[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]methyl]amino]benzonitrile

Example (vii)-a A was processed as in Example (vii)-a (Method 13) to provide the title compound.

mp 129-130 °C;

10 

MS (DCI/NH<sub>3</sub>) m/e 428 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.83 (s, 1H), 7.57 (m, 4H), 7.45 (d, 2H), 7.4 (t, 1H), 6.68 (d, 2H), 4.48 (d, 2H).

Example 96

15

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-methylbenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 165-167 °C;

MS (DCI/NH<sub>3</sub>) m/e 431 (M+NH<sub>4</sub>)<sup>+</sup>;

20 

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.67 (br s, 1H), 7.96 (d, 2H), 7.82 (s, 1H), 7.60 (d, 2H), 7.53 (m, 4H), 2.41 (s, 3H).

Example 97

(E)-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]methylene]-2,4-

25

difluorobenzenamine

Example (vii)-a A was processed as in Example (viii)-a (Method 13) to provide the title compound as a byproduct with Example 108.

MS (DCI/NH<sub>3</sub>) m/e 420 (M+NH<sub>4</sub>)<sup>+</sup>;

30 

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.8 (s, 1H), 8.2 (d, 2H), 7.9 (s, 1H), 7.8 (d, 2H), 7.5-7.4 (m, 2H), 7.2 (m, 1H).

Example 98

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3,4-dimethoxybenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 189-191 °C;

MS(DCI/NH<sub>3</sub>) 477 (M+NH<sub>4</sub>)<sup>+</sup>;

5 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.40 (br s, 1H), 7.99 (d, 2H), 7.83 (s, 1H), 7.67-7.55 (m, 3H), 7.12 (d, 2H), 3.86 (s, 3H), 3.85 (s, 3H).

#### Example 99

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]cyclopentanepropanamide

10 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 130-132 °C;

MS (DCI/NH<sub>3</sub>) 437 (M+NH<sub>4</sub>)<sup>+</sup>;

15 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.24 (br s, 1H), 7.80 (s, 1H), 7.79 (d, 2H), 7.53 (d, 2H), 2.37 (t, 2H), 1.81-1.73 (m, 3H), 1.66-1.48 (m, 8H).

#### Example 100

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-methylbenzamide

20 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 225-226 °C;

MS (DCI/NH<sub>3</sub>) 431 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.50 (br s, 1H), 8.01 (d, 2H), 7.91 (d, 2H), 7.83 (s, 1H), 7.61 (d, 2H), 7.37 (d, 2H), 2.40 (s, 3H).

25

#### Example 101

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-(trifluoromethyl)benzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

30 mp 143-145 °C;

MS(DCI/NH<sub>3</sub>) 485 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.80 (br s, 1H), 8.30 (m, 2H), 8.01 (d, 2H), 7.99 (s, 1H), 7.85-7.80 (m, 2H), 7.65 (d, 2H).

Example 102N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-methyl-2-butenamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

5 mp 150-152 °C;

MS (DCI/NH<sub>3</sub>) 395 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.08 (br s, 1H), 7.76 (s, 1H), 7.72 (d, 2H), 7.45 (d, 2H), 5.83 (s, 1H), 2.09 (s, 3H), 1.81 (s, 3H).

10

Example 103N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-hydroxybenzamide

Example 143 was treated with BBr<sub>3</sub> as described in Example 180B to provide the title compound.

mp 173-175 °C;

15 MS (DCI/NH<sub>3</sub>) m/e 433 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.5 (br s, 1H), 10.6 (s, 1H), 8.0-7.9 (m, 3H), 7.8 (s, 1H), 7.6 (d, 2H), 7.4 (m, 1H), 7.1-7.0 (m, 2H).

Example 104

20 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-hydroxybenzamide

Example 145 was treated with BBr<sub>3</sub> as described in Example 180B to provide the title compound.

mp 221-223 °C;

MS (DCI/NH<sub>3</sub>) m/e 433 (M+NH<sub>4</sub>)<sup>+</sup>;

25 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.5 (br s, 1H), 9.8 (s, 1H), 8.0 (d, 2H), 7.8 (s, 1H), 7.6 (d, 2H), 7.4-7.3 (m, 3H), 7.0 (m, 1H).

Example 105N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4-dimethyl-5-thiazolecarboxamide

30 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 158-159 °C;

MS (DCI/NH<sub>3</sub>) m/e 435 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.42 (s, 1H), 7.88 (d, 2H), 7.82 (s, 1H), 7.60 (d, 2H), 2.68 (s, 3H), 2.57 (s, 3H).

#### Example 106

5      N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-pyridinecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 185-188 °C;

MS (DCI/NH<sub>3</sub>) m/e 401 (M+H)<sup>+</sup>;

10      <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.78 (br s, 1H), 9.14 (d, 1H), 8.80 (dd, 1H), 8.32 (dt, 1H), 8.01 (d, 2H), 7.83 (s, 1H), 7.65-7.58 (m, 3H).

#### Example 107

15      N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-(hydroxymethyl)benzamide

To a solution of carboxylic acid methyl ester, Example 142, in toluene was added 1.2 equivalent of DIBAL-H (1.5 M solution in toluene) at -78 °C. After stirring at -78 °C for 1 h, 1 equivalent more of DIBAL-H was added to consume all the starting material. Then the reaction mixture was quenched with methanol followed by 1N NaOH. After stirring for 30 min, the reaction mixture was partitioned between ether and brine. The organic layer was separated, dried and concentrated to give crude material which was purified by normal phase HPLC (20:80, acetone:hexane). The desired product was collected in approximately 15% yield.

mp 213-214 °C;

MS (ESI-) m/e 428 (M-H)<sup>-</sup>;

25      <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.52 (s, 1H), 8.01 (d, 2H), 7.96 (d, 2H), 7.81 (s, 1H), 7.6 (d, 2H), 7.5 (d, 2H), 5.35 (t, 1H), 4.6 (d, 2H).

#### Example 108

30      4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(2,4-difluorophenyl)benzenemethanamine

Example (vii)-a A was processed as in Example (vii)-a (Method 13) to provide the title compound and Example 97 as a byproduct.

MS (DCI/NH<sub>3</sub>) m/e 422 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.8 (s, 1H), 7.6 (s, 4H), 7.1 (m, 1H), 6.8 (m, 1H), 6.6 (m, 1H), 6.2 (m, 1H), 4.4 (d, 2H).



Example 109N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-(methylsulfonyl)benzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 216-218 °C;

MS(DCI/NH<sub>3</sub>) 495 (M+NH<sub>4</sub>);

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.20 (d, 2H), 8.12 (d, 2H), 8.02 (d, 2H), 7.83 (s, 1H), 7.64 (d, 2H), 3.35 (s, 3H).

Example 110N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-iodobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 180-182 °C;

MS(DCI/NH<sub>3</sub>) 543 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.80 (br s, 1H), 7.97 (d, 1H), 7.93 (d, 2H), 7.83 (s, 1H), 7.62 (d, 2H), 7.55-7.50 (m, 2H), 7.30-7.21 (m, 1H).

Example 111N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-heptylbenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 143-145 °C;

MS (DCI/NH<sub>3</sub>) 515 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.51 (br s, 1H), 8.01 (d, 2H), 7.94 (d, 2H), 7.85 (s, 1H), 7.60 (d, 2H), 7.39 (d, 2H), 2.67 (t, 2H), 1.6 (m, 2H), 1.35-1.20 (m, 8H), 0.86 (t, 3H).

Example 113N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-furancarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 179-182 °C;

MS (DCI/NH<sub>3</sub>) m/e 407 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.54 (br s, 1H), 7.99 (d, 2H), 7.98 (d, 1H), 7.83 (s, 1H), 7.60 (d, 2H), 6.75-6.71 (m, 1H).

#### Example 114

##### 5        N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-fluorobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 188-190 °C;

MS (DCI/NH<sub>3</sub>) 435 (M+NH<sub>4</sub>)<sup>+</sup>;

10        <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.80 (br s, 1H), 7.94 (d, 2H), 7.83 (s, 1H), 7.71 (t, 1H), 7.62 (d, 2H), 7.65-7.59 (m, 1H), 7.36 (q, 2H).

#### Example 115

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-methyl-1,2-benzenedicarboxamide

15        2-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]carbonyl]benzoic acid (0.02 g, 0.045 mmol) in thionylchloride (1 mL) was heated to reflux for 3h. The excess thionylchloride was removed under reduced pressure.

To the acid chloride (0.023 mmol) in CH<sub>2</sub>Cl<sub>2</sub> (1 mL) was added methylamine hydrochloride (4.6 mg, 0.067 mmol) followed by triethylamine (0.019 mL, 0.14 mmol).

20        After stirring at room temperature over night, the reaction mixture was diluted with ether and washed with 1N HCl, saturated NaHCO<sub>3</sub> and brine. The solvent was removed, and the crude material was purified on silica gel column, eluting with 20% acetone /hexane to give the title compound.

MS (DCI/NH<sub>3</sub>) m/e 474 (M+NH<sub>4</sub>)<sup>+</sup>;

25        <sup>1</sup>H NMR (CDCl<sub>3</sub>, 300 MHz) δ 9.98 (s, 1H), 7.98 (d, 1H), 7.87 (d, 2H), 7.58 (m, 2H), 7.48 (m, 3H), 7.05 (s, 1H), 6.18 (bs, 1H), 3.01 (m, 3H).

#### Example 116

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-pyridinecarboxamide

30        Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 156-157 °C;

MS (DCI/NH<sub>3</sub>) m/e 401 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.83 (br s, 1H), 8.82 (d, 2H), 8.01 (d, 2H), 7.89 (d, 2H), 7.84 (s, 1H), 7.65 (d, 2H).

Example 117

5      N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-chloro-2-nitrobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 163-166 °C;

MS(DCI/NH<sub>3</sub>) 496 (M+NH<sub>4</sub>)<sup>+</sup>;

10      <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.10 (br s, 1H), 8.57 (s, d 1H), 8.37 (dd, 1H), 7.92 (d, 3H), 7.84 (s, 1H), 7.65 (d, 2H).

Example 118

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-cinnolinecarboxamide

15      Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

MS (DCI/NH<sub>3</sub>) m/e 452 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.30 (br s, 1H), 9.68 (s, 1H), 8.63 (d, 1H), 8.32 (d, 1H), 8.11-7.98 (m, 1H), 8.02 (d, 2H), 7.85 (s, 1H), 7.70 (d, 2H).

20

Example 119

4-Acetyl-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide      Example

(i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 203-204 °C;

25      MS (DCI/NH<sub>3</sub>) m/e 459 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.8 (s, 1H), 8.1 (s, 4H), 8.0 (d, 2H), 7.8 (s, 1H), 7.6 (d, 2H), 2.6 (s, 3H).

Example 120

30      1,1-Dimethylethyl 4-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]carbonyl]-1-piperidinecarboxylate

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

MS (DCI/NH<sub>3</sub>) m/e 524 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.29 (br s, 1H), 7.84 (d, 2H), 7.73 (s, 1H), 7.56 (d, 2H), 2.90-2.70 (m, 3H), 2.63-2.50 (m, 2H), 1.90-1.80 (m, 2H), 1.63-1.40 (m, 2H), 1.44 (s, 9H).

#### Example 121

5     N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-pyridinecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

MS (DCI/NH<sub>3</sub>) m/e 401 (M+H)<sup>+</sup>;

10     <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.03 (br s, 1H), 8.78 (dd, 1H), 8.21-8.07 (m, 2H), 8.16 (d, 2H), 7.83 (s, 1H), 7.74-7.69 (m, 1H), 7.63 (d, 2H).

#### Example 122

15     N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-(diethylamino)benzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

MS (DCI/NH<sub>3</sub>) m/e 471 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.15 (br s, 1H), 7.99 (d, 2H), 7.87 (s, 1H), 7.83 (d, 2H), 7.56 (d, 2H), 6.74 (d, 2H), 3.43 (q, 4H), 1.13 (t, 6H).

#### Example 123

20     N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]cyclopentanecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 165-168 °C;

25     MS (DCI/NH<sub>3</sub>) m/e 409 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.22 (br s, 1H), 7.80 (d, 2H), 7.80 (s, 1H), 7.53 (d, 2H), 2.84-2.76 (m, 1H), 1.89-1.54 (m, 8H).

#### Example 124

30     N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]cyclohexanecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 171-173 °C;

MS (DCI/NH<sub>3</sub>) m/e 423 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.23 (br s, 1H), 7.89 (d, 2H), 7.86 (s, 1H), 7.60 (d, 2H), 2.48-2.41 (m, 1H), 1.95-1.25 (m, 10H).

#### Example 125

5      N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-piperidinecarboxamide

To a stirred solution of the Boc-amine, Example 120, (165 mg, 0.323 mmol) in methylene chloride (3.0 mL) was added trifluoroacetic acid (0.250 mL, 3.25 mmol). The resulting solution was stirred at 23 °C for 2 hours at which point the reaction mixture was poured into saturated sodium bicarbonate solution (50 mL). The aqueous layer was extracted with ethyl acetate (2 X 50 mL). The combined organics were dried over sodium sulfate and concentrated. The crude residue was purified by flash column chromatography using 95% methylene chloride/5% methanol. Concentration of the appropriate fractions afforded 45 mg, 34% yield of Example 125 as a white solid.

mp 156-159 °C;

15      MS (DCI/NH<sub>3</sub>) m/e 407 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.20 (br s, 1H), 7.81 (d, 2H), 7.80 (s, 1H), 7.53 (d, 2H), 3.05-2.97 (m, 2H), 2.48-2.40 (m, 2H), 1.79-1.70 (m, 2H), 1.60-1.45 (m, 2H).

#### Example 126

20      N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-(methylsulfonyl)benzamide

The procedure in *J. Org. Chem.* **1991**, 56, 4974, hereby incorporated by reference, was followed. Briefly, to a solution of Na<sub>2</sub>SO<sub>3</sub> (0.63 g, 5.0 mmol) and NaHCO<sub>3</sub> (1.26 g, 15 mmol) in water (5 mL) was slowly added 3-chlorosulfonylbenzoic acid (1.1 g, 5.0 mmol). The reaction mixture was heated to 75° C for 1 hours, and then chloroacetic acid (0.71 g, 7.5 mmol) was added, followed by NaOH (0.3 g, 7.5 mmol). The resulting mixture was heated to 105 °C for 24 hours. After cooling to room temperature, the reaction was diluted with water and acidified with 1N HCl to pH 2. The solid was filtered, washed and dried to give 680 mg of the product in 75% yield.

25      <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300MHz) δ 8.4 (s, 1H), 8.25 (d, 1H), 8.17 (d, 1H), 7.8 (t, 1H), 3.35 (s, 3H);

30      MS (DCI/NH<sub>3</sub>) m/e 218 (M+NH<sub>4</sub>)<sup>+</sup>.

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) with the benzoic acid prepared as described above to provide the title compound.

mp 194-195 °C;  
MS (DCI/NH<sub>3</sub>) m/e 495 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.5 (s, 1H), 8.32 (d, 1H), 8.17 (d, 1H), 8.0 (d, 2H), 7.86 (t, 1H), 7.84 (s, 1H), 7.65 (d, 2H), 3.3 (s, 3H).

5

#### Example 127

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-(trifluoromethyl)benzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

10 mp 133-135 °C;  
MS (DCI/NH<sub>3</sub>) m/e 485 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.86 (s, 1H), 7.93-7.67 (m, 8H), 7.57 (d, 1H).

#### Example 128

##### 3-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]methyl]amino]benzonitrile

Example (vii)-a A was processed as in Example (vii)-a (Method 13) to provide the title compound.

15 MS (DCI/NH<sub>3</sub>) m/e 428 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.8 (s, 1H), 7.6 (m, 4H), 7.2 (m, 1H), 6.9 (m, 4H), 4.4 (d, 20 2H).

#### Example 129

##### Methyl 3-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]carbonyl]benzoate

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

25 mp 174-175 °C;  
MS (DCI/NH<sub>3</sub>) m/e 475 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) 10.8 (s, 1H), 8.56 (s, 1H), 8.27 (d, 1H), 8.2 (d, 1H), 8.02 (d, 2H), 7.85 (s, 1H), 7.73 (t, 1H), 7.63 (d, 2H), 3.94 (s, 3H).

30

#### Example 130

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-chlorobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 142-144 °C;  
MS (DCI/NH<sub>3</sub>) m/e 451 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.66 (s, 1H), 8.05-7.87 (m, 5H), 7.82 (s, 1H), 7.73-7.51 (m, 3H).

5

#### Example 131

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-thiophenecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

10 mp >230 °C;  
MS (DCI/NH<sub>3</sub>) m/e 423 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.54 (s, 1H), 8.07 (d, 1H), 7.95 (d, 2H), 7.90 (d, 1H), 7.82 (s, 1H), 7.62 (d, 2H), 7.26 (td, 1H).

15

#### Example 132

##### (E)-3-[2-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]ethenyl]benzonitrile

Example (vii)-a A was processed as in Example (ix)-a (Method 14) to provide the title compound.

mp 116-117 °C;  
20 MS (DCI/NH<sub>3</sub>) m/e 425 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.14 (s, 1H), 7.97 (d, 1H), 7.84 (s, 1H), 7.83 (d, 2H), 7.76 (d, 1H), 7.66 (d, 2H), 7.63 (t, 1H), 7.57 (d, 1H), 7.45 (d, 1H).

#### Example 133

25 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1,4-benzenedicarboxamide A reaction of carboxylic acid methyl ester (50 mg), Example 142, and 1M NH<sub>3</sub> in methanol (5 mL) in a sealed tube was stirred at 60 °C for 3 days. After cooling to room temperature, the solid precipitated out from the reaction mixture was filtered, washed with ether and dried to give the desired product in 35% yield.

30 mp 290-291 °C;  
MS (DCI/NH<sub>3</sub>) m/e 460 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.15 (s, 1H), 8.04 (s, 4H), 8.01 (d, 2H), 7.84 (s, 1H), 7.63 (d, 2H), 7.57 (s, 1H).

Example 134N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3,5-dinitrobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

- 5 mp >230 °C;  
MS (DCI/NH<sub>3</sub>) m/e 506 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.17 (s, 1H), 9.20 (d, 2H), 9.03 (t, 1H), 8.03 (d, 2H),  
7.85 (s, 1H), 7.70 (d, 2H).

Example 135N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4-difluorobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

- mp 126-128 °C;  
15 MS (DCI/NH<sub>3</sub>) m/e 453 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.79 (s, 1H), 7.92 (d, 2H), 7.84 (s, 1H), 7.80 (t, 1H), 7.62  
(d, 2H), 7.48 (t, 1H), 7.26 (t, 1H).

Example 136N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-nitrobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

- mp 174-176 °C;  
MS (DCI/NH<sub>3</sub>) m/e 462 (M+NH<sub>4</sub>)<sup>+</sup>;  
25 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.05 (s, 1H), 8.20 (dd, 1H), 7.93-7.75 (m, 6H), 7.63 (d,  
2H).

Example 137N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-cyanobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

- 30 mp 162-163 °C;  
MS (DCI/NH<sub>3</sub>) m/e 442 (M+NH<sub>4</sub>)<sup>+</sup>;



<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.75 (s, 1H), 8.44 (s, 1H), 8.26 (d, 1H), 8.11 (d, 1H), 8.00 (d, 2H), 7.83 (s, 1H), 7.79 (t, 1H), 7.64 (d, 2H).

#### Example 138

5 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1,3-benzenedicarboxamide

Example 129 was processed as described in Example 133 to provide the title compound.

mp 244-245 °C;

MS (DCI/NH<sub>3</sub>) m/e 460 (M+NH<sub>4</sub>)<sup>+</sup>;

10 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.47 (s, 1H), 8.1 (s, 1H), 8.1 (d, 2H), 8.01 (d, 2H), 7.82 (s, 1H), 7.65 (t, 1H), 7.62 (d, 2H), 7.52 (s, 1H).

#### Example 139

15 (Z)-3-[2-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]ethenyl]benzonitrile

Example (vii)-a A was processed as in Example (ix)-a (Method 14) to provide the title compound.

MS (DCI/NH<sub>3</sub>) m/e 425 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.82 (s, 1H), 7.72 (d, 1H), 7.62 (s, 1H), 7.54 (d, 2H), 7.51 (d, 1H), 7.48 (t, 1H), 7.4 (d, 2H), 6.91 (d, 1H), 6.81 (d, 1H).

20

#### Example 140

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-nitrobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

25 mp 203-204 °C;

MS (DCI/NH<sub>3</sub>) m/e 462 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.89 (s, 1H), 8.82 (t, 1H), 8.48-8.41 (m, 2H), 8.02 (d, 2H), 7.88 (d, 1H), 7.83 (d, 1H), 7.64 (d, 2H).

30

#### Example 141

3-(aminosulfonyl)-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide

To a solution of Example (i)-a B (112 mg, 0.380 mmol) and N-methylmorpholine (0.50 mL) in dichloromethane (3 mL) was added 3-(chlorosulfonyl)benzoyl chloride (109 mg, 0.455 mmol). The resulting solution was stirred at 23 °C for 3 hours at which point a solution

of saturated ammonia in methanol (2 mL) was added. The resulting white solid was filtered and washed with hexane to provide 80 mg (40%) of the desired compound.

mp 177-178 °C;

MS(DCI/NH<sub>3</sub>) 496 (M+H)<sup>+</sup>;

5 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.41 (s, 1H), 8.21 (d, 1H), 8.06-7.99 (m, 1H), 8.00 (d, 2H), 7.84 (s, 1H), 7.78 (t, 1H), 7.64 (d, 2H), 7.52 (br s, 2H).

#### Example 142

methyl 4-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]carbonyl]benzoate

10 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 195-196 °C;

MS (DCI/NH<sub>3</sub>) m/e 475 (M+NH<sub>4</sub>)<sup>+</sup>;

15 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.12 (m, 4H), 8.0 (d, 2H), 7.84 (s, 1H), 7.63 (d, 2H), 3.92 (s, 3H).

#### Example 143

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-methoxybenzamide

20 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 100-102 °C;

MS (DCI/NH<sub>3</sub>) m/e 447 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.47 (s, 1H), 7.95 (d, 2H), 7.82 (s, 1H), 7.60 (d, 2H), 7.63 (dd, 1H), 7.53 (dt, 1H), 7.20 (d, 1H), 7.07 (t, 1H), 3.91 (s, 3H).

25

#### Example 144

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-bromobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

30 mp 158-160 °C;

MS (DCI/NH<sub>3</sub>) m/e 497 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.67 (s, 1H), 8.17 (t, 1H), 8.01 (d, 2H), 8.02-7.86 (m, 1H), 7.82 (s, 1H), 7.84-7.82 (m, 1H), 7.62 (d, 2H), 7.54 (t, 1H).

Example 145N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-methoxybenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

5 mp 169-172 °C;

MS (DCI/NH<sub>3</sub>) m/e 447 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.55 (s, 1H), 8.02 (d, 2H), 7.82 (s, 1H), 7.72 (d, 1H), 7.58 (m, 3H), 7.38 (dd, 1H), 7.18 (dd, 1H), 3.86 (s, 3H).

Example 146N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-fluorobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 148-151 °C;

15 MS (DCI/NH<sub>3</sub>) m/e 435 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.64 (s, 1H), 8.0 (d, 2H), 8.05-8.0 (m, 1H), 7.84 (s, 1H), 7.85-7.78 (m, 1H), 7.74-7.43 (m, 2H), 7.62 (d, 2H).

Example 147N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-bromobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 182-184 °C;

MS (DCI/NH<sub>3</sub>) m/e 495 (M+NH<sub>4</sub>)<sup>+</sup>;

25 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.55 (s, 1H), 7.92 (d, 2H), 7.83 (s, 1H), 7.75 (d, 1H), 7.64-7.58 (m, 3H), 7.52 (td, 1H), 7.46 (dd, 1H).

Example 148N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1,3-benzodioxole-5-carboxamide

30

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 222-224 °C;

MS (DCI/NH<sub>3</sub>) m/e 461 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.39 (s, 1H), 7.98 (d, 2H), 7.82 (s, 1H), 7.60 (m, 2H), 7.54 (d, 1H), 7.09 (d, 2H), 6.18 (s, 2H).

Example 149

5 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,6-dichloro-3-pyridinecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 115-117 °C;

MS (DCI/NH<sub>3</sub>) m/e 486 (M+NH<sub>4</sub>)<sup>+</sup>;

10 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.25 (d, 1H), 7.90 (d, 2H), 7.84 (s, 1H), 7.78 (d, 1H), 7.66 (d, 2H).

Example 150

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-3-pyridinecarboxamide

15 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 145-147 °C;

MS (DCI/NH<sub>3</sub>) m/e 452 (M+NH<sub>4</sub>)<sup>+</sup>;

16 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.03 (s, 1H), 8.57 (dd, 1H), 8.16 (dd, 1H), 7.91 (d, 2H),  
20 7.82 (s, 1H), 7.64 (d, 2H), 7.60 (dd, 1H).

Example 151

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-6-methyl-3-pyridinecarboxamide

25 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 155-156 °C;

MS (DCI/NH<sub>3</sub>) m/e 466 (M+NH<sub>4</sub>)<sup>+</sup>;

16 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.96 (s, 1H), 8.02 (d, 1H), 7.90 (d, 2H), 7.83 (s, 1H), 7.62  
30 (d, 2H), 7.44 (d, 1H), 2.55 (s, 3H).

Example 152

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-fluoro-γ-oxobenzenebutanamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 156-158 °C;

MS (DCI/NH<sub>3</sub>) m/e 474 (M+H)<sup>+</sup>;

5 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.04 (dd, 2H), 7.91 (s, 1H), 7.70 (d, 2H), 7.43 (d, 2H), 7.16 (t, 2H), 7.05 (s, 1H), 3.45 (t, 2H), 2.85 (t, 2H).

#### Example 153

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1,2,3,4-tetrahydro-2-  
10 naphthalenecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 199-201 °C;

MS (DCI/NH<sub>3</sub>) m/e 471 (M+NH<sub>4</sub>)<sup>+</sup>;

15 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.35 (s, 1H), 7.84 (d, 2H), 7.80 (s, 1H), 7.56 (d, 2H), 7.11 (s, 4H), 2.97-2.72 (m, 7H).

#### Example 154

(E)-1-[4-[2-(2-chlorophenyl)ethenyl]phenyl]-3,5-bis(trifluoromethyl)-1H-pyrazole

20 Example (vii)-a A was processed as in Example (ix)-a (Method 14) to provide the title compound.

mp 81-82 °C;

MS (DCI/NH<sub>3</sub>) m/e 434 (M+NH<sub>4</sub>)<sup>+</sup>;

25 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.92 (d, 1H), 7.87 (d, 2H), 7.86 (s, 1H), 7.65 (d, 2H), 7.6 (d, 1H), 7.53 (d, 1H), 7.44 (d, 1H), 7.43 (t, 1H), 7.36 (t, 1H).

#### Example 155

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-(4-chlorophenoxy)-2-  
30 methylpropanamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

MS (DCI/NH<sub>3</sub>) m/e 509 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.37 (s, 1H), 7.92 (d, 2H), 7.80 (s, 1H), 7.56 (d, 2H), 7.37 (d, 2H), 6.96 (d, 2H), 1.56 (s, 6H).

Example 156N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]acetamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the  
5 title compound.

mp 169-170 °C;

MS (DCI/NH<sub>3</sub>) m/e 355 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.27 (s, 1H), 7.78 (d, 2H), 7.79 (s, 1H), 7.55 (d, 2H),  
2.11 (s, 3H).

10

Example 1574-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]carbonyl]benzoic acid A

solution of carboxylic acid methyl ester, Example 142, and 2.5 equivalent of NaOH in ethanol  
was stirred at 80 °C for 3 hours. Then the reaction mixture was diluted with water and  
15 acidified with 1N HCl to give the precipitated product.

mp 282-283 °C;

MS (DCI/NH<sub>3</sub>) m/e 461 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-D<sub>6</sub>, 300 MHz) δ 10.75 (s, 1H), 8.09 (s, 4H), 8.02 (d, 2H), 7.84 (s, 1H), 7.63  
(d, 2H).

20

Example 158phenylmethyl N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]-4-oxobutyl]carbamate

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the  
25 title compound.

MS (DCI/NH<sub>3</sub>) m/e 532 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.23 (s, 1H), 7.78 (d, 2H), 8.00 (d, 1H), 7.52 (d, 2H), 7.34  
(s, 1H), 7.40-7.25 (m, 4H), 5.00 (s, 2H), 3.08 (q, 2H), 2.38 (t, 2H), 1.78 (quintet, 2H).

30

Example 1593-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]carbonyl]benzoic acid

A solution of Example 129 and NaOH (2.5 equivalents) in ethanol at 80° C was stirred  
for 3 hours, diluted with water, acidified with 1M HCl, filtered and dried under vacuum to  
provide the title compound.

mp 244-245 °C;  
MS (DCI/NH<sub>3</sub>) m/e 461 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-D<sub>6</sub>, 300 MHz) δ 10.78 (s, 1H), 8.55 (s, 1H), 8.23 (d, 1H), 8.17 (d, 1H), 8.02 (d, 2H), 7.84 (s, 1H), 7.7 (t, 1H), 7.63 (d, 2H).

5

#### Example 160

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,6-difluorobenzamide

Example (i)-c B was processed as in Example (i)-c (Method 5, 6, or 7) to provide the title compound.

10 mp 127-128 °C;  
MS (DCI/NH<sub>3</sub>) m/e 453 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-D<sub>6</sub>, 300 MHz) δ 10.38 (s, 1H), 7.86 (d, 1H), 7.78 (s, 1H), 7.69 (t, 1H), 7.59 (d, 1H), 7.52 (t, 1H), 7.45 (t, 1H), 7.15 (t, 2H).

15

#### Example 161

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-bromo-2-thiophenecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 139-140 °C;  
20 MS (DCI/NH<sub>3</sub>) m/e 503 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.92 (d, 1H), 7.90 (d, 2H), 7.83 (s, 1H), 7.64 (d, 2H), 7.26 (d, 1H).

#### Example 162

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-methyl-2-thiophenecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 185-188 °C;  
MS (DCI/NH<sub>3</sub>) m/e 437 (M+NH<sub>4</sub>)<sup>+</sup>;  
30 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.30 (s, 1H), 7.90 (d, 2H), 7.80 (s, 1H), 7.71 (d, 1H), 7.58 (d, 2H), 7.06 (d, 1H), 2.43 (s, 3H).

#### Example 163

##### 2-amino-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide

Example 163 was prepared from Example 136 using the reduction procedure described in Example 59.

mp 204-206 °C;

MS (DCI/NH<sub>3</sub>) m/e 415 (M+H)<sup>+</sup>;

5 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.32 (s, 1H), 7.95 (d, 2H), 7.82 (s, 1H), 7.67 (d, 1H), 7.58 (d, 2H), 7.23 (t, 1H), 6.78 (d, 1H), 6.62 (t, 1H), 6.37 (s, 2H).

#### Example 164

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-fluoro-3-pyridinecarboxamide

10 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 110-112 °C;

MS (DCI/NH<sub>3</sub>) m/e 436 (M+NH<sub>4</sub>)<sup>+</sup>;

15 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.94 (s, 1H), 8.42 (d, 1H), 8.31 (dd, 1H), 7.92 (d, 2H), 7.82 (s, 1H), 7.64 (d, 2H), 7.55 (dd, 1H).

#### Example 165

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-chloro-4-(methylsulfonyl)-2-thiophenecarboxamide

20 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 210-212 °C;

MS (DCI/NH<sub>3</sub>) m/e 535 (M+NH<sub>4</sub>)<sup>+</sup>;

25 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.84 (s, 1H), 9.94 (s, 1H), 7.82 (d, 2H), 7.75 (s, 1H), 7.55 (d, 2H), 3.30 (s, 3H).

#### Example 166

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1H-pyrrole-2-carboxamide

30 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp >240 °C;

MS (DCI/NH<sub>3</sub>) m/e 406 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.96 (d, 2H), 7.82 (s, 1H), 7.58 (d, 2H), 7.13 (s, 1H), 7.02 (s, 1H), 6.20 (s, 1H).



Example 167N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3,6-dichloro-2-pyridinecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 118-119 °C;

MS (DCI/NH<sub>3</sub>) m/e 486 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.11 (s, 1H), 8.24 (d, 1H), 7.92 (d, 2H), 7.82 (s, 1H), 7.78 (d, 1H), 7.63 (d, 2H).

Example 168N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-(2-nitrophenoxy)acetamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 170-173 °C;

MS (DCI/NH<sub>3</sub>) m/e 492 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.78 (d, 2H), 7.22 (d, 2H), 7.05 (s, 1H), 7.03 (d, 1H), 6.70 (d, 2H), 6.26 (d, 1H), 5.72 (s, 1H), 3.92 (s, 2H).

Example 169N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-chlorobenzeneacetamide

Example (i)-c B was processed as in Example (i)-c (Method 5, 6, or 7) to provide the title compound.

mp 122-124 °C;

MS (DCI/NH<sub>3</sub>) m/e 465 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.5 (s, 1H), 7.9 (m, 2H), 7.6 (m, 1H), 7.5 (d, 1H), 7.4 (m, 3H), 7.2 (d, 2H), 3.5 (s, 2H).

Example 170N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1H-indole-2-acetamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 176-178 °C;

MS (DCI/NH<sub>3</sub>) m/e 470 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.92 (s, 1H), 10.44 (s, 1H), 7.84 (s, 1H), 7.81 (d, 2H), 7.63 (d, 1H), 7.53 (d, 2H), 7.36 (d, 1H), 7.28 (d, 1H), 7.08 (td, 1H), 6.98 (td, 1H), 3.78 (s, 2H).

5

Example 171

(E)-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-(2-thienyl)-2-propenamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 216-218 °C;

10 MS (DCI/NH<sub>3</sub>) m/e 449 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.95 (d, 1H), 7.90 (d, 2H), 7.82 (s, 1H), 7.64 (t, 1H), 7.63 (d, 1H), 7.58 (d, 2H), 7.42 (d, 1H), 6.68 (d, 1H).

Example 172

15

N-[4-[3,5-Bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]pyrazinecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 183-185 °C;

MS (DCI/NH<sub>3</sub>) m/e 419 (M+NH<sub>4</sub>)<sup>+</sup>;

20 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.34 (d, 1H), 8.98 (d, 1H), 8.84 (dd, 1H), 8.15 (d, 2H), 7.83 (s, 1H), 7.64 (d, 2H).

Example 173

25

1,1-Dimethylethyl [[4-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]-4-oxobutyl]carbamate

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

MS (DCI/NH<sub>3</sub>) m/e 481 (M+H)<sup>+</sup>;

30 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.80 (d, 2H), 7.95 (s, 1H), 7.55 (d, 2H), 6.82 (t, 1H), 2.98 (q, 2H), 2.34 (t, 2H), 1.71 (quintet, 2H), 1.38 (s, 9H).

Example 174

1-Acetyl-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-piperidinecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 94-95 °C;

MS (DCI/NH<sub>3</sub>) m/e 466 (M+NH<sub>4</sub>)<sup>+</sup>;

5 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.26 (s, 1H), 7.82 (d, 2H), 7.78 (s, 1H), 7.53 (d, 2H), 4.41 (d, 1H), 3.87 (d, 1H), 3.08 (t, 1H), 2.68-2.55 (m, 2H), 2.01 (s, 3H), 1.92-1.78 (m, 2H), 1.71-1.55 (m, 2H).

#### Example 175

10 N-[4-[3,5-Bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]butanamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

MS (DCI/NH<sub>3</sub>) m/e 383 (M+NH<sub>4</sub>)<sup>+</sup>;

15 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.26 (s, 1H), 7.82 (d, 2H), 7.80 (s, 1H), 7.53 (d, 2H), 2.51-2.44 (t, 2H), 1.57 (sextet, 2H), 0.91 (t, 3H).

#### Example 176

N-[4-[3,5-Bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-chloro-2-methoxybenzamide

20 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 178-180 °C;

MS (DCI/NH<sub>3</sub>) m/e 481 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.5 (s, 1H), 8.0 (d, 2H), 7.8 (s, 1H), 7.7 (d, 1H), 7.6 (d, 2H), 7.3 (d, 1H), 7.2 (dd, 1H), 3.3 (s, 3H).

25

#### Example 177

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-α-methyl-4-(2-thienylcarbonyl)benzeneacetamide

30 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp <80°C;

MS (DCI/NH<sub>3</sub>) m/e 555 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.11 (dd, 1H), 7.85 (dd, 2H), 7.83 (dd, 2H), 7.79 (s, 1H), 7.75 (dd, 1H), 7.60 (d, 2H), 7.55 (d, 2H), 7.28 (dd, 1H), 4.01 (q, 1H), 1.5 (d, 3H).

Example 178N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]- $\alpha$ -methyl-4-(2-thienylcarbonyl)benzeneacetamide

5        Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.  
mp <100 °C;  
MS (DCI/NH<sub>3</sub>) m/e 555 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz)  $\delta$  10.54 (s, 1H), 8.11 (dd, 1H), 7.85 (dd, 2H), 7.83 (dd, 2H),  
10    7.81 (s, 1H), 7.75 (dd, 1H), 7.60 (d, 2H), 7.55 (d, 2H), 7.28 (dd, 1H), 4.01 (q, 1H), 1.5 (d, 3H).

Example 179N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-methoxy-4-(methythio)benzamide

15        Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.  
mp 164-165 °C;  
MS (DCI/NH<sub>3</sub>) m/e 493 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz)  $\delta$  10.35 (s, 1H), 7.95 (d, 2H), 7.82 (s, 1H), 7.65 (d, 1H), 7.59  
(d, 2H), 7.03 (d, 1H), 6.96 (dd, 1H), 3.95 (s, 3H), 2.55 (s, 3H).

20

Example 180N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-hydroxy-3-nitrobenzamideExample 180A

25        Example (i)-a B and 3-nitro-4-methoxybenzoic acid were processed as in Example (i)-a (Method 5, 6, or 7) to provide the desired compound.

Example 180BN-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-hydroxy-3-nitrobenzamide

30        A solution of example 180A (1.0 mmol) in toluene (3 mL) at -78 °C was treated dropwise with BBr<sub>3</sub> (1.0M in toluene, 1.5 equivalents for each hydroxyl), stirred at -78 °C for 2 hours and at room temperature for 16 hours, recooled to -78 °C, treated with methanol (1 mL), warmed to room temperature, and concentrated. The residue was filtered through a MgSO<sub>4</sub>/silica gel plug with 20% acetone in hexanes and further purified by HPLC eluting with 20% acetone in hexanes.

mp 193-194 °C;  
MS (DCI/NH<sub>3</sub>) m/e 478 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.58 (s, 1H), 8.58 (s, 1H), 8.17 (d, 1H), 7.98 (d, 2H), 7.82 (s, 1H), 7.62 (d, 2H), 7.25 (d, 1H).

5

#### Example 181

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3,4-dihydroxybenzamide

Example (i)-a B and 3,4-dimethoxybenzoic acid were processed as in examples (i)-a (Method 5, 6, or 7) and 180B to provide the title compound.

10 mp 233-235 °C;  
MS (DCI/NH<sub>3</sub>) m/e 449 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.0 (d, 2H), 7.8 (s, 1H), 7.6 (d, 2H), 7.4 (m, 2H), 6.8 (d, 1H).

15

#### Example 182

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-hydroxy-6-methoxybenzamide

Example (i)-a B and 2,6-dimethoxybenzoic acid were processed as in examples (i)-a (Method 5, 6, or 7) and 180B (using 1.5 equivalents of 1.0M BBr<sub>3</sub> in toluene) to provide the title compound.

20 mp 114-116 °C;  
MS (DCI/NH<sub>3</sub>) m/e 446 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.6 (s, 1H), 10.3 (s, 1H), 8.0 (d, 2H), 7.8 (s, 1H), 7.6 (d, 2H), 7.2 (t, 1H), 6.6 (d, 1H), 6.6 (d, 1H), 3.8 (s, 3H).

25

#### Example 183

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4-bis(trifluoromethyl)benzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

30 mp 200-201 °C;  
MS (DCI/NH<sub>3</sub>) m/e 553 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.28 (d, 1H), 8.25 (s, 1H), 8.10 (d, 1H), 7.88 (d, 2H), 7.84 (s, 1H), 7.64 (d, 2H).

#### Example 184

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-methyl-4-isoxazolecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 163-167 °C;

5 MS (DCI/NH<sub>3</sub>) m/e 422 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.97 (s, 1H), 8.01 (d, 2H), 7.80 (s, 1H), 7.61 (d, 2H), 6.69 (s, 1H), 2.50 (s, 3H).

Example 185

10 4-[3,5-Bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(2-chlorophenyl)benzamide

Example (v)-a C was processed as in Example (v)-a (Method 11) to provide the title compound.

mp 162-164 °C;

MS (DCI/NH<sub>3</sub>) m/e 451 (M+NH<sub>4</sub>)<sup>+</sup>;

15 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.4 (s, 1H), 8.2 (d, 2H), 7.9 (s, 1H), 7.8 (d, 2H), 7.6 (m, 2H), 7.5-7.3 (m, 2H).

Example 186

4-[3,5-Bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(3-cyanophenyl)benzamide

20 Example (v)-a C was processed as in Example (v)-a (Method 11) to provide the title compound.

mp 195-196 °C;

MS (DCI/NH<sub>3</sub>) m/e 442 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.8 (s, 1H), 8.3 (s, 1H), 8.2 (d, 2H), 8.1 (m, 1H), 7.9 (s, 25 1H), 7.8 (d, 2H), 7.6 (d, 1H), 7.6 (d, 1H).

Example 187

4-[3,5-Bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(2,4-difluorophenyl)benzamide

30 Example (v)-a C was processed as in Example (v)-a (Method 11) to provide the title compound.

mp 176-177 °C;

MS (DCI/NH<sub>3</sub>) m/e 453 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.4 (s, 1H), 8.2 (d, 2H), 7.9 (s, 1H), 7.8 (d, 2H), 7.6 (m, 1H), 7.4 (m, 1H), 7.2 (m, 1H).

Example 1884-[3,5-Bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(2-cyanophenyl)benzamide

Example (v)-a C was processed as in Example (v)-a (Method 11) to provide the title  
5 compound.  
mp 203-205 °C;  
MS (DCI/NH<sub>3</sub>) m/e 442 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.88 (s, 1H), 8.22 (d, 2H), 7.93 (s, 1H), 7.93 (d, 1H), 7.85  
(d, 2H), 7.78 (dt, 1H), 7.63 (d, 1H), 7.46 (dt, 1H).

Example 1893,5-dimethyl-N-[4-(3,5-dimethyl-1H-1,2,4-triazol-1-yl)phenyl]-4-isoxazolecarboxamide

Example (xxv)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide  
the title compound.  
15 mp 170-171 °C;  
MS (DCI/NH<sub>3</sub>) m/e 312 (M+H)<sup>+</sup>;  
<sup>1</sup>H NMR (CDCl<sub>3</sub>, 300 MHz) δ 7.79 (d, 2H), 7.45 (d, 2H), 7.3 (s, 1H), 2.7 (s, 3H), 2.54 (s,  
3H), 2.48 (s, 3H), 2.42 (s, 3H).

Example 1904-[3,5-Bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(2-nitrophenyl)benzamide

Example (v)-a C was processed as in Example (v)-a (Method 11) to provide the title  
compound.  
mp 173-175 °C;  
25 MS (DCI/NH<sub>3</sub>) m/e 462 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.0 (s, 1H), 8.2 (d, 2H), 8.0 (d, 1H), 7.9 (s, 1H), 7.8 (d,  
2H), 7.7 (m, 2H), 7.4 (m, 1H).

Example 1914-[3,5-Bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(2,6-difluorophenyl)benzamide

Example (v)-a C was processed as in Example (v)-a (Method 11) to provide the title  
compound.  
mp 187-188 °C;  
30 MS (DCI/NH<sub>3</sub>) m/e 453 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.4 (s, 1H), 8.2 (d, 2H), 7.9 (s, 1H), 7.8 (d, 2H), 7.4 (m, 1H), 7.3 (d, 1H), 7.2 (d, 1H).

#### Example 192

5        4-[3,5-Bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(2-bromophenyl)benzamide

Example (v)-a C was processed as in Example (v)-a (Method 11) to provide the title compound.

mp 163-165 °C;

MS (DCI/NH<sub>3</sub>) m/e 496 (M+NH<sub>4</sub>)<sup>+</sup>;

10        <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.33 (s, 1H), 8.2 (d, 2H), 7.89 (s, 1H), 7.83 (d, 2H), 7.74 (dd, 1H), 7.58 (dd, 1H), 7.45 (dt, 1H), 7.26 (dt, 1H).

#### Example 193

15        4-[3,5-Bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(4-cyanophenyl)benzamide

Example (v)-a C was processed as in Example (v)-a (Method 11) to provide the title compound.

mp 192-193 °C;

MS (DCI/NH<sub>3</sub>) m/e 442 (M+NH<sub>4</sub>)<sup>+</sup>;

20        <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.87 (s, 1H), 8.17 (d, 2H), 8.0 (d, 2H), 7.92 (s, 1H), 7.86 (d, 2H), 7.82 (d, 2H).

#### Example 194

25        4-[3,5-Bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(4-pyridinyl)benzamide

Example (v)-a C was processed as in Example (v)-a (Method 11) to provide the title compound.

mp 234-235 °C;

MS (DCI/NH<sub>3</sub>) m/e 401 (M+H)<sup>+</sup>;

30        <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.77 (s, 1H), 8.78 (d, 2H), 8.34 (d, 2H), 8.25 (d, 2H), 7.94 (s, 1H), 7.9 (d, 2H).

#### Example 195

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-fluoro-3-(trifluoromethyl)-benzamide



Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 142-144 °C;

MS (ESI-) m/e 485 (M-H)<sup>-</sup>;

5 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.7 (s, 1H, ), 8.45 (m, 2H), 7.95 (d, 2H), 7.85 (s, 1H), 7.75 (m, 1H), 7.65 (d, 2H).

#### Example 196

N-[2-(aminocarbonyl)phenyl]-4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]benzamide

10 Example (v)-a C was processed as in Example (v)-a (Method 11) to provide the title compound.

mp 195-196 °C;

MS (DCI/NH<sub>3</sub>) m/e 460 (M+NH<sub>4</sub>)<sup>+</sup>;

15 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 13.14 (s, 1H), 8.7 (d, 1H), 8.46 (s, 1H), 8.15 (d, 2H), 7.9 (m, 5H), 7.62 (t, 1H), 7.22 (t, 1H).

#### Example 197

N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-chlorobenzeneacetamide

20 Example (i)-b B was processed as in Example (i)-b (Method 5, 6, or 7) to provide the title compound.

mp 209-211 °C;

MS (DCI/NH<sub>3</sub>) m/e 465 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.6 (s, 1H), 8.0 (t, 1H), 7.8 (s, 1H), 7.7 (d, 1H), 7.6 (t, 1H), 7.4-7.2 (m, 5H), 3.7 (s, 2H).

25

#### Example 198

N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,3-dichlorobenzamide

Example (i)-b B was processed as in Example (i)-b (Method 5, 6, or 7) to provide the title compound.

30 mp 119-121 °C;

MS (DCI/NH<sub>3</sub>) m/e 485 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.0 (s, 1H), 8.1 (t, 1H), 7.9 (s, 1H), 7.8 (dd, 2H), 7.6 (m, 2H), 7.5 (t, 1H), 7.4 (d, 1H).

Example 199N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-5-nitrobenzamide

Example (i)-b B was processed as in Example (i)-b (Method 5, 6, or 7) to provide the title compound.

5 mp 147-152 °C;

MS (DCI/NH<sub>3</sub>) m/e 496 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.1 (s, 1H), 8.6 (d, 1H), 8.4 (dd, 1H), 8.1 (s, 1H), 7.9-7.8 (m, 3H), 7.6 (t, 1H), 7.2 (d, 1H).

10

Example 200N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-fluoro-3-nitrobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 186-187 °C;

15 MS (DCI/NH<sub>3</sub>) m/e 480 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.84 (s, 1H), 8.78 (dd, 1H), 8.42 (m, 1H), 8.0 (d, 2H), 7.82 (s, 1H), 7.81 (dd, 1H), 7.64 (d, 2H).

Example 201

20

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-fluoro-2-(trifluoromethyl)benzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 178-179 °C;

25 MS (DCI/NH<sub>3</sub>) m/e 503 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.96 (s, 1H), 7.91 (d, 1H), 7.89 (d, 2H), 7.85 (dd, 1H), 7.83 (s, 1H), 7.72 (dt, 1H), 7.62 (d, 2H).

Example 202

30

N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-fluorobenzamide

Example (i)-b B was processed as in Example (i)-b (Method 5, 6, or 7) to provide the title compound.

mp 150-152 °C;

MS (DCI/NH<sub>3</sub>) m/e 435 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.6 (s, 1H), 8.2 (t, 1H), 8.1 (m, 2H), 8.0 (d, 1H), 7.9 (s, 1H), 7.6 (t, 1H), 7.5-7.3 (m, 3H).

Example 203

5      N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4-difluorobenzamide

Example (i)-b B was processed as in Example (i)-b (Method 5, 6, or 7) to provide the title compound.

mp 133-134 °C;

MS (DCI/NH<sub>3</sub>) m/e 453 (M+NH<sub>4</sub>)<sup>+</sup>;

10      <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.85 (d, 1H), 7.85 (d, 1H), 7.78 (t, 1H), 7.62 (t, 1H), 7.45 (dt, 1H), 7.38 (d, 1H), 7.25 (dt, 1H).

Example 204

N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-cyanobenzamide

15      Example (i)-b B was processed as in Example (i)-b (Method 5, 6, or 7) to provide the title compound.

mp 160-161 °C;

MS (DCI/NH<sub>3</sub>) m/e 442 (M+NH<sub>4</sub>)<sup>+</sup>;

20      <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.75 (s, 1H), 8.44 (s, 1H), 8.27 (d, 1H), 8.15 (s, 1H), 8.1 (d, 1H), 7.98 (d, 1H), 7.88 (s, 1H), 7.78 (t, 1H), 7.63 (t, 1H), 7.4 (d, 1H).

Example 205

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-bromo-3-nitrobenzamide

25      Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 213-214 °C;

MS (DCI/NH<sub>3</sub>) m/e 541 (M+NH<sub>4</sub>)<sup>+</sup>;

30      <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.6 (s, 1H), 8.12 (dd, 1H), 7.86 (dd, 1H), 7.86 (d, 2H), 7.83 (s, 1H), 7.77 (t, 1H), 7.64 (d, 2H).

Example 206

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-4-fluorobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 155-157 °C;  
MS (DCI/NH<sub>3</sub>) 469 (M+H)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.92 (d, 2H), 7.83 (s, 1H), 7.90-7.60 (m, 2H), 7.63 (d, 2H),  
7.40 (dt, 1H).

5

Example 207N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-4-(methylsulfonyl)benzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the  
10 title compound.

mp 219-220 °C;  
MS (DCI/NH<sub>3</sub>) 529 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.08 (br s, 1H), 8.16 (d, 1H), 8.05-7.95 (m, 2H), 7.96 (d,  
2H), 7.84 (s, 1H), 7.65 (d, 2H), 2.38 (s, 3H).

15

Example 208N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,5-dichlorobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the  
20 title compound.

mp 154-156 °C;  
MS(DCI/NH<sub>3</sub>) 485 (M + NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.99 (br s, 1H), 7.98 (d, 2H), 7.87 (s, 2H), 7.72-7.65 (m,  
4H).

25

Example 209N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,3-difluorobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the  
30 title compound.

mp 147-149 °C;  
MS (DCI/NH<sub>3</sub>) m/e 453 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.9 (s, 1H), 7.9 (d, 2H), 7.8 (s, 1H), 7.7 (m, 1H), 7.6 (d,  
2H), 7.5 (m, 1H), 7.4 (m, 1H).

Example 210

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-chloro-4-fluorobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 138-139 °C;

5 MS (DCI/NH<sub>3</sub>) m/e 469 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.5 (s, 1H), 8.1 (dd, 1H), 7.9 (m, 1H), 7.8 (d, 2H), 7.7 (s, 1H), 7.5 (d, 2H), 7.4 (m, 1H).

Example 211

10 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,5-difluorobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 168-169 °C;

MS (DCI/NH<sub>3</sub>) m/e 453 (M+NH<sub>4</sub>)<sup>+</sup>;

15 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.8 (s, 1H), 7.9 (d, 2H), 7.8 (s, 1H), 7.6 (d, 2H), 7.5-7.4 (m, 3H).

Example 212

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-6-fluorobenzamide

20 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 165-167 °C;

MS (DCI/NH<sub>3</sub>) m/e 469 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.2 (s, 1H), 7.9 (d, 2H), 7.8 (s, 1H), 7.7 (d, 2H), 7.6-7.4 (m, 3H).

Example 213

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-fluoro-6-(trifluoromethyl)benzamide

30 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 175-176 °C;

MS (DCI/NH<sub>3</sub>) m/e 503 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.22 (s, 1H), 7.86 (s, 1H), 7.83 (d, 2H), 7.83-7.74 (m, 3H) 7.63 (d, 2H).

#### Example 214

5     N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-chloro-2-fluorobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 113-116 °C;

MS(DCI/NH<sub>3</sub>) 469 (M+NH<sub>4</sub>)<sup>+</sup>;

10     <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.93 (s, 1H), 7.93 (d, 2H), 7.83 (s, 1H), 7.80 (t, 1H), 7.69 (t, 1H), 7.64 (d, 2H), 7.39 (t, 1H).

#### Example 215

15     N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-4-methoxybenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 140-143 °C;

MS (DCI/NH<sub>3</sub>) m/e 481 (M+NH<sub>4</sub>)<sup>+</sup>;

20     <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.7 (s, 1H), 7.9 (d, 2H), 7.8 (s, 1H), 7.6 (d, 2H), 7.2 (d, 1H), 7.0 (m, 2H), 3.8 (s, 3H).

#### Example 216

25     N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,6-dichloro-3-nitrobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 160-161 °C;

MS (DCI/NH<sub>3</sub>) m/e 530 (M+NH<sub>4</sub>)<sup>+</sup>;

30     <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.32 (d, 1H), 8.12 (d, 1H), 7.78 (d, 2H), 7.68 (s, 1H), 7.53 (d, 2H).

#### Example 217

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-bromo-2-chlorobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 164-167 °C;  
MS (DCI/NH<sub>3</sub>) 531 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.96 (s, 1H), 7.93 (d, 1H), 7.92 (d, 2H), 7.84 (s, 1H),  
7.70-7.80 (m, 1H), 7.63 (d, 2H), 7.58 (d, 1H).

5

#### Example 218

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3,4-difluorobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

10 mp 183-185 °C;  
MS(DCI/NH<sub>3</sub>) 453 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.65 (s, 1H), 8.30-8.24 (m, 1H), 8.11-8.06 (m, 1H), 7.99  
(d, 2H), 7.90-7.87 (m, 1H), 7.83 (s, 1H), 7.80-7.60 (m, 1H), 7.62 (d, 2H).

15

#### Example 219

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-bromo-5-methoxybenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 179-181 °C;  
20 MS (DCI/NH<sub>3</sub>) m/e 525 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.8 (s, 1H), 7.9 (d, 2H), 7.8 (s, 1H), 7.6 (d, 2H), 7.2 (d,  
1H), 7.0 (d, 1H), 7.0 (dd, 1H), 3.8 (s, 3H).

#### Example 220

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-chloro-2-hydroxybenzamide

Example (i)-a B and 2-methoxy-4-chlorobenzoic acid were processed as in examples (i)-a (Method 5, 6, or 7) and 180B to provide the title compound.

mp 200-202 °C;  
MS (DCI/NH<sub>3</sub>) m/e 467 (M+NH<sub>4</sub>)<sup>+</sup>;  
30 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.0 (d, 2H), 7.9 (s, 1H), 7.8 (s, 1H), 7.6 (d, 2H), 7.0 (m,  
2H).

#### Example 221

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-bromo-4-methoxybenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 197-198 °C;

MS (DCI/NH<sub>3</sub>) m/e 525 (M+NH<sub>4</sub>)<sup>+</sup>;

5 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.49 (s, 1H), 8.26 (d, 1H), 8.05 (dd, 1H), 7.99 (d, 2H), 7.82 (s, 1H), 7.6 (d, 2H), 7.29 (d, 1H), 3.96 (s, 3H).

#### Example 222

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-bromo-4-hydroxybenzamide

10 Example 221 was processed as in Example 180B to provide the title compound.

mp 165-167 °C;

MS (ESI-) m/e 492 (M-H)<sup>-</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.4 (s, 1H), 8.2 (d, 1H), 7.97 (d, 2H), 7.87 (dd, 1H), 7.81 (s, 1H), 7.59 (d, 2H), 7.07 (d, 1H).

15

#### Example 223

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-4,5-difluorobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

20 mp 149-152 °C;

MS (DCI/NH<sub>3</sub>) 487 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.95 (br s, 1H), 8.00-7.90 (m, 2H), 7.91 (d, 2H), 7.84 (s, 1H), 7.64 (d, 2H).

25

#### Example 224

N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,6-difluorobenzamide

Example (i)-b B was processed as in Example (i)-b (Method 5, 6, or 7) to provide the title compound.

mp 142-143 °C;

30 MS (DCI/NH<sub>3</sub>) m/e 453 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.2 (s, 1H), 8.09 (s, 1H), 7.87 (s, 1H), 7.82 (d, 1H), 7.63 (m, 2H), 7.42 (d, 1H), 7.3 (t, 2H).

#### Example 225



N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-chloro-2,5-difluorobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 160-162 °C;

5 MS (ESI-) m/e 468 (M-H)<sup>-</sup>;

<sup>1</sup>H NMR (CDCl<sub>3</sub>, 300 MHz) δ 8.52 (d, 2H), 8.0 (dd, 1H), 7.85 (d, 2H), 7.15 (s, 1H), 7.40 (dd, 1H), 7.42 (d, 2H).

Example 226

10 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,3,4-trifluorobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 122-124 °C;

MS (DCI/NH<sub>3</sub>) m/e 471 (M+NH<sub>4</sub>)<sup>+</sup>;

15 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.9 (d, 2H), 7.8 (s, 1H), 7.6 (d, 2H), 7.6-7.4 (m, 2H).

Example 227

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3,4,5-trifluorobenzamide

20 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 158-159 °C;

MS (DCI/NH<sub>3</sub>) m/e 471 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.02-7.94 (m, 4H), 7.82 (s, 1H), 7.63 (d, 2H).

25 Example 228

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4,5-trifluorobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 109-111 °C;

30 MS (DCI/NH<sub>3</sub>) m/e 471 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.9 (s, 1H), 7.9 (d, 2H), 7.8 (s, 1H), 7.6 (d, 2H), 7.8-7.6 (m, 2H).

Example 229

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4,6-trifluorobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 183-185 °C;

5 MS (DCI/NH<sub>3</sub>) 471 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.18 (s, 1H), 7.89 (d, 2H), 7.84 (s, 1H), 7.65 (d, 2H), 7.46-7.40 (m, 2H).

Example 230

10 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,6-difluoro-3-nitrobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 187-189 °C;

MS (DCI/NH<sub>3</sub>) m/e 498 (M+NH<sub>4</sub>)<sup>+</sup>;

15 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.4 (s, 1H), 8.4 (m, 1H), 7.9 (d, 2H), 7.8 (s, 1H), 7.7 (d, 2H), 7.6 (m, 1H).

Example 231

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,3,5-trifluorobenzamide

20 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 169-170°C;

MS (DCI/NH<sub>3</sub>) m/e 471 (M+NH<sub>4</sub>)<sup>+</sup>;

25 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.99 (s, 1H), 7.91 (d, 2H), 7.83 (s, 1H), 7.88-7.78 (m, 1H), 7.64 (d, 2H), 7.58-7.48 (m, 1H).

Example 232

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4-dichloro-6-fluorobenzamide

30 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 185-188 °C;

MS (DCI/NH<sub>3</sub>) m/e 503 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.01 (d, 1H), 7.94-7.85 (m, 3H), 7.82 (s, 1H), 7.62 (d, 2H).

Example 233N-4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl-2,4-dichloro-3,5-dinitrobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

5 MS (ESI-) m/e 556 (M-H)-;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.89 (s, 1H), 7.89 (d, 2H), 7.85 (s, 1H), 7.67 (d, 2H).

Example 234N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,3,5,6-tetrafluorobenzamide

10 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 235-237 °C;

MS (DCI/NH<sub>3</sub>) 489 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.18-8.05 (m, 1H), 7.89 (d, 2H), 7.84 (s, 1H), 7.67 (d, 2H).

15

Example 235N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,3,4,5-tetrafluorobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

20 mp 138-140 °C;

MS (DCI/NH<sub>3</sub>) 470 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (CDCl<sub>3</sub>, 300 MHz) δ 7.85 (d, 3H), 7.45 (d, 2H), 7.10 (s, 1H).

Example 236

25 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-bromo-2,3,5,6-tetrafluorobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 183-184 °C;

30 MS (DCI/NH<sub>3</sub>) m/e 507 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.9 (s, 1H), 7.9 (d, 2H), 7.7 (d, 2H).

Example 237N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-methyl-2-nitrobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 188-189°C;

MS (DCI/NH<sub>3</sub>) m/e 458 (M+H)<sup>+</sup>;

5 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.12 (d, 1H), 7.92-7.82 (t, 3H), 7.67-7.57 (m, 4H), 3.32 (s, 3H).

#### Example 238

##### N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-cyanobenzamide

10 Example (i)-b B was processed as in Example (i)-b (Method 5, 6, or 7) to provide the title compound.

mp 133-134 °C;

MS (DCI/NH<sub>3</sub>) m/e 442 (M+NH<sub>4</sub>)<sup>+</sup>;

15 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 0.8 (s, 1H), 8.2-8.0 (m, 5H), 7.9 (d, 1H), 7.8 (s, 1H), 7.6 (t, 1H), 7.4 (d, 1H).

#### Example 239

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-thiophenecarboxamide

20 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 239-240 °C;

MS (DCI/NH<sub>3</sub>) m/e 423 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.4 (m, 1H), 8.0 (d, 2H), 7.8 (s, 1H), 7.7-7.6 (m, 2H), 7.6 (d, 2H).

25

#### Example 240

##### N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-isoxazolecarboxamide

30 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 202-204 °C;

MS (DCI/NH<sub>3</sub>) m/e 408 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.0 (s, 1H), 8.8 (d, 1H), 8.0 (d, 2H), 7.8 (s, 1H), 7.6 (d, 2H), 7.3 (d, 1H).

Example 241N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]tetrahydro-2-furancarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 113-116 °C;

MS (DCI/NH<sub>3</sub>) m/e 411 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.93 (d, 2H), 7.80 (s, 1H), 7.56 (d, 2H), 4.45 (dd, 1H), 4.01 (q, 1H), 3.85 (q, 1H), 2.26-2.17 (m, 1H), 2.07-1.98 (m, 1H), 1.93-1.87 (m, 2H).

Example 242N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-pyrrolidinecarboxamide

Example 242 was prepared from Example 246 using the procedure described to prepare Example 125.

mp 82-84 °C;

MS (DCI/NH<sub>3</sub>) m/e 393 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.30 (s, 1H), 7.90 (d, 2H), 7.82 (s, 1H), 7.55 (d, 2H), 3.76-3.74 (dd, 1H), 2.93 (t, 2H), 2.14-2.01 (m, 1H), 1.88-1.75 (m, 1H), 1.69 (q, 2H).

Example 243N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]tetrahydro-3-furancarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 193-194 °C;

MS (DCI/NH<sub>3</sub>) m/e 411 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.70 (s, 1H), 8.18-8.03 (m, 3H), 7.90-7.78 (m, 2H), 4.31-4.18 (m, 1H), 4.17-3.89 (m, 4H), 2.45-2.25 (m, 2H).

Example 244N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1,2,3-thiadiazole-5-carboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 213-214 °C;

MS (DCI/NH<sub>3</sub>) m/e 425 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.33 (s, 1H), 9.89 (s, 1H), 8.12 (d, 2H), 7.84 (s, 1H), 7.66 (d, 2H).

#### Example 245

5 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-4-pyridinecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 183-184 °C;

MS (DCI/NH<sub>3</sub>) m/e 452 (M+NH<sub>4</sub>)<sup>+</sup>;

10 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.87 (s, 1H), 8.66 (dd, 1H), 8.03 (s, 1H), 7.98 (d, 1H), 7.80 (d, 2H), 7.82 (s, 1H), 7.66 (d, 2H).

#### Example 246

15 1,1-Dimethylethyl 2-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]aminolcarbonyl]-1-pyrrolidinecarboxylate

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 70-72 °C;

MS (DCI/NH<sub>3</sub>) m/e 493 (M+H)<sup>+</sup>;

20 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.36 (s, 1H), 7.84-7.77 (m, 3H), 7.56 (d, 2H), 4.31-4.18 (m, 1H), 3.48-3.35 (m, 2H), 1.98-1.80 (m, 4H), 1.40 (s, 3H), 1.27 (s, 6H).

#### Example 247

25 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-nitro-2-furancarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 198-199 °C;

MS (DCI/NH<sub>3</sub>) m/e 452 (M+NH<sub>4</sub>)<sup>+</sup>;

30 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.85 (s, 1H), 7.98 (d, 2H), 7.85 (d, 1H), 7.84 (s, 1H), 7.7 (d, 1H), 7.65 (d, 2H).

#### Example 248

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-methyl-1H-pyrrole-2-carboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 148-149 °C;

MS (DCI/NH<sub>3</sub>) m/e 420 (M+NH<sub>4</sub>)<sup>+</sup>;

5 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.0 (s, 1H), 7.9 (d, 2H), 7.8 (s, 1H), 7.6 (d, 2H), 7.1 (m, 2H), 6.1 (dd, 1H), 3.9 (s, 3H).

#### Example 249

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-6-chloro-3-pyridinecarboxamide

10 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 192-194 °C;

MS (DCI/NH<sub>3</sub>) m/e 452 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.79 (s, 1H), 8.98 (d, 1H), 8.37 (dd, 1H), 7.97 (d, 2H),  
15 7.82 (s, 1H), 7.73 (d, 1H), 7.64 (d, 2H).

#### Example 250

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-methyl-1,2,3-thiadizole-5-carboxamide

20 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 164-166 °C;

MS (ESI-) m/e 420 (M-H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.06 (s, 1H), 7.92 (d, 2H), 7.84 (s, 1H), 7.66 (d, 2H), 2.84  
25 (s, 3H).

#### Example 251

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-bromo-2-furancarboxamide

30 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 181-182 °C;

MS (DCI/NH<sub>3</sub>) m/e 486 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.96 (d, 2H), 7.82 (s, 1H), 7.61 (d, 2H), 7.44 (d, 1H), 6.88 (d, 1H).

Example 252N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-methyl-2-furancarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the  
5 title compound.  
mp 119-120 °C;  
MS (DCI/NH<sub>3</sub>) m/e 421 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.4 (s, 1H), 8.0 (d, 2H), 7.9 (d, 1H), 7.8 (s, 1H), 7.6 (d,  
10 2H), 6.6 (d, 1H), 2.4 (s, 3H).

Example 253N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-chloro-2-thiophenecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the  
title compound.  
15 mp 182-184 °C;  
MS (DCI/NH<sub>3</sub>) m/e 457 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.0 (d, 1H), 7.9 (d, 2H), 7.8 (s, 1H), 7.6 (d, 2H), 7.3 (d,  
1H).

Example 254N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]tetrahydro-5-oxo-2-furancarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the  
title compound.  
mp 172-173 °C;  
25 MS (DCI/NH<sub>3</sub>) m/e 425 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.58 (s, 1H), 7.85 (d, 2H), 7.81 (s, 1H), 7.60 (d, 2H),  
5.14-5.08 (m, 1H), 2.61-2.50 (m, 3H), 2.34-2.24 (m, 1H).

Example 255N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-oxo-2-pyrrolidinecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the  
title compound.  
mp decomposes >250 °C;  
30 MS (DCI/NH<sub>3</sub>) m/e 424 (M+NH<sub>4</sub>)<sup>+</sup>;



<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.94 (s, 1H), 7.86 (d, 2H), 7.81 (s, 1H), 7.58 (d, 2H), 4.27 (m, 1H), 2.38 (m, 1H), 2.2 (m, 2H), 2.05 (m, 1H).

#### Example 256

5 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-bromo-3-pyridinecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 155-157 °C;

MS (DCI/NH<sub>3</sub>) m/e 489 (M+NH<sub>4</sub>)<sup>+</sup>;

10 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.8 (s, 1H), 9.1 (d, 1H), 8.9 (d, 1H), 8.6 (t, 1H), 8.0 (d, 2H), 7.8 (s, 1H), 7.6 (d, 2H).

#### Example 257

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-nitro-3-thiophenecarboxamide

15 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 164-165 °C;

MS (DCI/NH<sub>3</sub>) m/e 468 (M+NH<sub>4</sub>)<sup>+</sup>;

20 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.7 (d, 1H), 8.6 (d, 1H), 8.0 (d, 2H), 7.8 (s, 1H), 7.6 (d, 2H).

#### Example 258

1,1-Dimethylethyl 4-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]carbonyl]-3-thiazolidinecarboxylate

25 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 82-84 °C;

MS (DCI/NH<sub>3</sub>) m/e 528 (M+NH<sub>4</sub>)<sup>+</sup>;

30 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.45 (s, 1H), 7.82 (s, 1H), 7.80 (d, 2H), 7.58 (d, 2H), 4.68-4.42 (m, 3H), 3.58-3.43 (m, 1H), 3.24-3.15 (m, 1H), 1.30 (s, 9H).

#### Example 259

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-methoxy-3-thiophenecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 213-214 °C;

MS (DCI/NH<sub>3</sub>) m/e 453 (M+NH<sub>4</sub>)<sup>+</sup>;

5 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.00 (s, 1H), 8.17 (d, 1H), 7.93 (d, 2H), 7.82 (s, 1H), 7.60 (d, 2H), 6.85 (d, 1H), 3.93 (s, 3H).

#### Example 260

##### N-[2-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-5-pyridinyl]-2-chlorobenzamide

10 Example (xxiv)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 156-159 °C;

MS (DCI/NH<sub>3</sub>) m/e 435 (M+H)<sup>+</sup>;

15 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.12 (s, 1H), 8.85 (d, 1H), 8.48 (dd, 1H), 7.95 (d, 1H), 7.90 (s, 1H), 7.70-7.50 (m, 4H).

#### Example 261

##### N-[2-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-5-pyridinyl]-3-cyanobenzamide

20 Example (xxiv)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 206-208 °C;

MS (DCI/NH<sub>3</sub>) m/e 426 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.98 (br s, 1H), 8.95 (d, 1H), 8.51 (dd, 1H), 8.17 (d, 2H), 8.15 (d, 2H), 7.94 (d, 1H), 7.87 (s, 1H).

25

#### Example 262

##### N-[2-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-5-pyridinyl]-2-chloro-4,5-difluorobenzamide

Example (xxiv)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

30 mp 113-116 °C;

MS (DCI/NH<sub>3</sub>) m/e 471 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.15 (s, 1H), 8.83 (d, 1H), 8.45 (dd, 1H), 8.02-7.91 (m, 2H), 7.94 (d, 1H), 7.87 (s, 1H).

Example 263N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,3-dibromo-5-thiophenecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

5 mp 142-144 °C;

MS (DCI/NH<sub>3</sub>) m/e 581 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.66 (s, 1H), 8.13 (s, 1H), 7.95 (d, 2H), 7.85 (s, 1H), 7.65 (d, 2H).

10

Example 264N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-fluoro-4-pyridinecarboxamide

The procedure described by Shi, G.; Takagishi, S.; Schlosser, M. *Tetrahedron*. **1994**, *50*, 1129-1134 and Lecomte, L.; Ndzi, B.; Queguiner, G.; Turck, A. FR. 2,686,340-A1, hereby incorporated by reference, was used. Under reduced pressure, the volatile components  
15 were stripped off from a solution of n-butyllithium (30 mL) in hexanes. At -78 °C, potassium tert-butoxide (2.75 g, 25 mmol), THF (30 mL), and a precooled solution of 3-fluoropyridine (2.5 g 25 mmol, 2.18 mL) in THF (30 mL) were consecutively added to the residue with stirring until the alcoholate dissolved. After 4 hours at -78 °C, the reaction mixture was  
20 poured onto fresh dry ice. After evaporation to dryness, the solid salt was treated with a small excess of 1M hydrogen chloride in diethyl ether. Then the mixture (desired product in hydrochloric salt form and KCl salt) was concentrated to give 2.0 g of a brown solid. This mixture was used in the coupling procedure described below in which a small amount of pyridine was used to neutralize the acidic salt form.

25 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound using the isofluoronicotinic acid prepared as described in the preceding paragraph.

mp 152-153 °C;

MS (DCI/NH<sub>3</sub>) m/e 436 (M+NH<sub>4</sub>)<sup>+</sup>;

30 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.80 (s, 1H), 8.63 (dd, 1H), 7.83 (d, 2H), 7.84 (s, 1H), 7.77 (t, 1H), 7.64 (d, 2H).

Example 265N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-methyl-1H-pyrazole-4-carboxamide

To a mixture of ethyl 4-pyrazolecarboxylate (100 mg, 0.71 mmol) and  $K_2CO_3$  (108 mg, 0.78 mmol) in  $CH_3CN$  (2 mL) was added methyl iodide (67  $\mu L$ , 1.07 mmol). After the reaction mixture stirred at room temperature overnight, the precipitate from the reaction was filtered and washed with ether. The filtrates were combined, washed with brine, and dried ( $Na_2SO_4$ ),

5 and concentrated to provide 80 mg of desired product as an oil:

MS (DCI/ $NH_3$ ) m/e 172 ( $M+NH_4$ )<sup>+</sup>;

$^1H$  NMR ( $DMSO-d_6$ , 300MHz)  $\delta$  8.29 (s, 1H), 7.82 (s, 1H), 4.2 (q, 2H), 3.87 (s, 3H), 1.25 (t, 3H).

10 Example (i)-a B (59 mg, 0.2 mmol), ethyl-1-methyl-4-pyrazolecarboxylate (31 mg, 0.2 mmol) and NaH (95% dry) (4.8 mg, 0.2 mmol) in DMSO (2 mL) were stirred at room temperature for 2 days and then poured into ice water with stirring. The solid was filtered, washed with water and dried to give the title compound in 81% yield.

mp 211-212 °C;

MS (DCI/ $NH_3$ ) m/e 421 ( $M+NH_4$ )<sup>+</sup>;

15  $^1H$  NMR ( $DMSO-d_6$ , 300 MHz)  $\delta$  10.14 (s, 1H), 8.37 (s, 1H), 8.05 (s, 1H), 7.94 (d, 2H), 7.83 (s, 1H), 7.59 (d, 2H), 3.93 (s, 3H).

#### Example 266

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3,5-dimethyl-4-isoxazolecarboxamide

20 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 179-180 °C;

MS (DCI/ $NH_3$ ) m/e 436 ( $M+NH_4$ )<sup>+</sup>;

25  $^1H$  NMR ( $DMSO-d_6$ , 300 MHz)  $\delta$  10.40 (br s, 1H), 7.88 (d, 2H), 7.83 (s, 1H), 7.63 (d, 2H), 2.58 (s, 3H), 2.36 (s, 3H).

#### Example 267

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-chloro-4-methoxy-3-thiophenecarboxamide

30 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 119-120 °C;

MS (DCI/ $NH_3$ ) m/e 487 ( $M+NH_4$ )<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.43 (s, 1H), 8.06 (s, 1H), 7.93 (d, 2H), 7.84 (s, 1H), 7.6 (d, 2H), 3.93 (s, 3H).

Example 268

5 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5,6-dichloro-3-pyridinecarboxamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 175-177 °C;

MS (DCI/NH<sub>3</sub>) m/e 486 (M+NH<sub>4</sub>)<sup>+</sup>;

10 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.0 (d, 1H), 8.6 (d, 1H), 8.0 (d, 2H), 7.8 (s, 1H), 7.6 (d, 2H).

Example 269

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,6-dichloro-4-pyridinecarboxamide

15 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 215-216 °C;

MS (DCI/NH<sub>3</sub>) m/e 486 (M+NH<sub>4</sub>)<sup>+</sup>;

20 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.92 (s, 1H), 8.04 (s, 2H), 7.97 (d, 2H), 7.84 (s, 1H), 7.67 (d, 2H).

Example 270

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,5-dichloro-3-pyridinecarboxamide

25 Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 228-229 °C;

MS (DCI/NH<sub>3</sub>) m/e 487 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.70 (d, 1H), 8.45 (d, 1H), 7.88 (d, 2H), 7.83 (s, 1H), 7.64 (d, 2H).

30

Example 271

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-3-(trifluoromethyl)phenyl]-4-chlorobenzamide

Example (xi)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 65-67 °C;

MS (ESI-) m/e 500 (M-H)-;

- 5 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.94 (s, 1H), 8.48 (d, 1H), 8.29 (dd, 1H), 8.04 (d, 2H), 7.92 (s, 1H), 7.91 (d, 1H), 7.68 (d, 2H).

#### Example 272

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-2-fluorophenyl]-2,4-difluorobenzamide

- 10 Example (xvi)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 66-67 °C

MS (ESI-) m/e 452 (M-H)-;

- 15 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.96 (s, 1H), 7.88 (dd, 1 H), 7.8 (s, 1H), 7.68 (dd, 1 H), 7.58 (m, 2H), 7.35 (m, 1H), 7.17 (m, 1H);  
Anal. calcd for C<sub>18</sub>H<sub>8</sub>F<sub>9</sub>N<sub>3</sub>O: C, 47.69; H, 1.77; N, 9.27. Found: C, 47.78; H, 1.87; N, 9.18.

#### Example 273

N-[2,4-bis[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4-difluorobenzamide

- 20 Example (xvii)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 114-115 °C

MS (ESI-) m/e 636 (M-H)-;

- 25 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 12.04 (s, 1H), 8.21 (d, 1H), 8.06 (d, 1H), 7.98 (dd, 1 H), 7.88 (s, 1H), 7.82 (s, 1H), 7.64 (dd, 1 H), 7.38 (h, 1H), 7.21 (h, 1H);  
Anal. calcd for C<sub>23</sub>H<sub>9</sub>F<sub>14</sub>N<sub>5</sub>O: C, 43.34; H, 1.43; N, 10.98. Found: C, 43.7; H, 1.41; N, 10.78.

#### Example 274

- 30 methyl 2-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-5-[(5-bromo-2-chlorobenzoyl)-amino]benzoate

Example (x)-a C was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 75-76 °C

MS (DCI/NH<sub>3</sub>) m/e 589 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.17 (s, 1H), 8.52 (d, 1H), 8.08 (dd, 1H), 7.98 (d, 1H), 7.82-7.74 (m, 3H), 7.58 (d, 1H), 3.64 (s, 3H).

5

Example 275

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-3-(trifluoromethyl)phenyl]-3,5-dimethyl-4-isoxazolecarboxamide

Example (xi)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

10 mp 61-63 °C;

MS (ESI-) m/e 485 (M-H)<sup>-</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.68 (s, 1H), 8.38 (d, 1H), 8.11 (dd, 1H), 7.93 (s, 1H), 7.92 (d, 1H), 2.61 (s, 3H), 2.38 (s, 3H);

15 Anal. calcd for C<sub>18</sub>H<sub>11</sub>F<sub>9</sub>N<sub>4</sub>O<sub>2</sub>: C, 44.45; H, 2.28; N, 11.52. Found: C, 44.60; H, 2.37; N, 10.91.

Example 276

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-3-(trifluoromethyl)phenyl]-4-methyl-1,2,3-thiadiazole-5-carboxamide

20 Example (xi)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 134-136 °C;

MS (ESI-) m/e 488 (M-H)<sup>-</sup>;

25 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.35 (s, 1H), 8.18 (d, 1H), 8.16 (dd, 1H), 7.96 (d, 1H), 7.94 (s, 1H), 2.86 (s, 3H);

Anal. calcd for C<sub>16</sub>H<sub>8</sub>F<sub>9</sub>N<sub>5</sub>OS: C, 39.27; H, 1.68; N, 14.18. Found: C, 39.29; H, 1.71; N, 13.81.

Example 277

30 

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-3-chlorophenyl]-3,5-dimethyl-4-isoxazolecarboxamide

Example (xiii)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 64-65 °C;

MS (ESI-) m/e 451 (M-H)-;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.54 (s, 1H), 8.12 (d, 1H), 7.91 (s, 1H), 7.84 (d, 1H), 7.77 (dd, 1H), 2.48 (s, 3H), 2.36 (s, 3H);

Anal. calcd for C<sub>17</sub>H<sub>11</sub>ClF<sub>6</sub>N<sub>4</sub>O<sub>2</sub>: C, 45.09; H, 2.44; N, 12.37. Found: C, 45.26; H, 2.5; N,

11.98.

#### Example 278

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-2-(trifluoromethyl)phenyl]-3,5-dimethyl-4-isoxazolecarboxamide

Example (xii)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 145-146 °C;

MS (ESI-) m/e 485 (M-H)-;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.17 (d, 1H), 8.06 (dd, 1H), 7.92 (d, 2H), 7.9 (s, 1H), 2.62 (s, 3H), 2.37 (s, 3H);

Anal. calcd for C<sub>18</sub>H<sub>11</sub>F<sub>9</sub>N<sub>4</sub>O<sub>2</sub>: C, 44.45; H, 2.28; N, 11.52. Found: C, 44.39; H, 2.16; N, 11.3.

#### Example 279

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-2-methylphenyl]-4-methyl-1,2,3-thiadiazole-5-carboxamide

Example (xiv)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 196-197 °C;

MS (ESI-) m/e 434 (M-H)-;

<sup>1</sup>H NMR (CDCl<sub>3</sub>, 300 MHz) δ 8.04 (s, 1H), 7.73 (d, 1H), 7.54 (d, 2H), 7.47 (dd, 1H), 2.88 (s, 3H), 2.33 (s, 3H);

Anal. calcd for C<sub>16</sub>H<sub>11</sub>F<sub>6</sub>N<sub>5</sub>OS: C, 44.14; H, 2.54; N, 16.08. Found: C, 44.25; H, 2.45; N, 15.97.

#### Example 280

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-2-methoxyphenyl]-4-methyl-1,2,3-thiadiazole-5-carboxamide



Example (xv)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 119-121 °C;

MS (ESI-) m/e 450 (M-H)<sup>-</sup>;

5 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.14 (d, 1H); 7.94 (s, 1H), 7.75 (d, 1H), 7.23 (dd, 1H), 3.97 (s, 3H), 2.85 (s, 3H);

Anal. calcd for C<sub>16</sub>H<sub>11</sub>F<sub>6</sub>N<sub>5</sub>O<sub>2</sub>S: C, 42.57; H, 2.45; N, 15.51. Found: C, 43.19; H, 2.46; N, 14.46.

10

#### Example 281

##### 4-chloro-N-[4-[5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide

Example (xix)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 145-146 °C;

15 MS (DCI/NH<sub>3</sub>) m/e 370 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (CDCl<sub>3</sub>, 300 MHz) δ 7.85 (d, 2H), 7.78 (d, 2H), 7.49 (d, 2H), 7.47 (d, 2H), 6.67 (s, 1H), 2.36 (s, 3H).

#### Example 282

##### 4-methyl-N-[4-[5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1,2,3-thiadiazole-5-carboxamide

Example (xix)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 51-53 °C;

25 MS (DCI/NH<sub>3</sub>) m/e 368 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (CDCl<sub>3</sub>, 300 MHz) δ 7.85 (d, 2H), 7.78 (d, 2H), 7.49 (d, 2H), 7.47 (d, 2H), 6.67 (s, 1H), 2.36 (s, 3H).

#### Example 283

##### 3,5-Dimethyl-N-[4-[5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-isoxazolecarboxamide

Example (xix)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 180-181 °C;

MS (DCI/NH<sub>3</sub>) m/e 365 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (CDCl<sub>3</sub>, 300 MHz) δ 7.85 (d, 2H), 7.78 (d, 2H), 7.49 (d, 2H), 7.47 (d, 2H), 6.67 (s, 1H), 2.36 (s, 3H).

5

#### Example 284

##### 4-Chloro-N-[4-(5-methyl-1H-pyrazol-1-yl)phenyl]benzamide

Example (xxi)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 189-191 °C;

10 

MS (DCI/NH<sub>3</sub>) m/e 312 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.50 (s, 1H), 8.02 (d, 2H), 7.91 (d, 2H), 7.63 (d, 2H), 7.54 (d, 1H), 7.50 (d, 2H), 6.26 (d, 1H), 2.34 (s, 3H).

#### Example 285

15 

4-Methyl-N-[4-(5-methyl-1H-pyrazol-1-yl)phenyl]-1,2,3-thiadiazole-5-carboxamide

Example (xxi)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 163-164 °C;

MS (DCI/NH<sub>3</sub>) m/e 300 (M+H)<sup>+</sup>;

20 

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.89 (s, 1H), 7.83 (d, 2H), 7.55 (d, 1H), 7.53 (d, 2H), 6.27 (d, 1H), 2.93 (s, 3H), 2.35 (s, 3H).

#### Example 286

##### 3,5-dimethyl-N-[4-(5-methyl-1H-pyrazol-1-yl)phenyl]-4-isoxazolecarboxamide

25 

Example (xxi)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 151-152 °C;

MS (DCI/NH<sub>3</sub>) m/e 297 (M+H)<sup>+</sup>;

30 

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.23 (s, 1H), 7.79 (d, 2H), 7.54 (d, 1H), 7.50 (d, 2H), 6.26 (dd, 1H), 2.57 (s, 3H), 2.36 (s, 3H), 2.32 (s, 3H).

#### Example 287

##### 3,5-dimethyl-N-[4-[3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-isoxazolecarboxamide

Example (xxii)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 177-178 °C;

MS (DCI/NH<sub>3</sub>) m/e 351 (M+H)<sup>+</sup>;

5 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.24 (s, 1H), 8.69 (d, 1H), 7.86 (dd, 4H), 7.04 (d, 1H), 2.57 (s, 3H), 2.36 (s, 3H).

#### Example 288

N-[4-[5-hydroxy-3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-methyl-1,2,3-thiadiazole-5-  
10 carboxamide

Example (xxiii)-a C was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 177- 179 °C;

MS (ESI-) m/e 368 (M-H)<sup>-</sup>;

15 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.87 (s, 1H), 8.82 (d, 2H), 8.67 (d, 2H), 5.82 (s, 1H), 2.84 (s, 3H).

#### Example 289

N-[4-(3,5-dimethyl-1H-1,2,4-triazol-1-yl)phenyl]-4-methyl-1,2,3-thiadiazole-5-carboxamide

20 Example (xxv)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 144-145 °C;

MS (DCI/NH<sub>3</sub>) m/e 315 (M+H)<sup>+</sup>;

25 <sup>1</sup>H NMR (CDCl<sub>3</sub>, 300 MHz) δ 7.74 (d, 2H), 7.28 (d, 2H), 3.01 (s, 3H), 2.51 (s, 3H), 2.42 (s, 3H).

#### Example 290

3-amino-N-(4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide

30

#### Example 290A

##### 3-nitro-nicotinic acid

3-Nitro-4-methylpyridine (2 g, 14 mmol) in water (200 mL) was refluxed while a saturated solution of potassium permanganate (4.43 g, 28 mmol) in water (20 mL) was added dropwise over a 4 hour period. At the end of addition, the solution was refluxed for another

two hours. The solution was filtered while hot, the brown manganese dioxide filter cake was extracted twice with hot water, and the filtrates were combined and concentrated in vacuo. Then the solid was redissolved with a minimum amount of water, and concentrated hydrochloric acid was added to acidify the solution to pH = 3. The acidic solution was concentrated in vacuo to give 800 mg of brown product (carboxylic acid salt and KCl salt). The product mixture was carried for next step without further purification.

Reference: Kataoka, M.; Morisawa, Y.; Kitano, N. *J. Med. Chem.* **1976**, 30(4), 483-487.

#### Example 290B

##### 3-nitro-N-(4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide

Example (i)-a B and Example 290A were processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 207-209 °C;

MS (DCI) m/e (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.16 (s, 1H), 9.40 (s, 1H), 9.10 (d, 1H, J = 6Hz), 7.94 (d, 1H, J=6 Hz), 7.85 (d, 2H, J=9 Hz), 7.84 (s, 1H), 7.65 (d, 2H, J=9 Hz).

#### Example 290

##### 3-amino-N-(4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide

To a slurry 5% Pd-C (11 mg) in ethyl acetate (10 mL) was added Example 290B (110 mg, 0.247 mmol). The resulting mixture was hydrogenated at 4 atm pressure at room temperature for 18 hours. After purging the reaction with nitrogen and filtering the mixture through a plug of diatomaceous earth, the solution was concentrated in vacuo and purified with 10 g of silica-gel using ethyl acetate: hexanes (v/v; 3:7) to afford the title compound as a white powder (80 mg, 77% yield).

mp 101-102 °C;

MS (DCI/NH<sub>3</sub>) m/e 416 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.55 (s, 1H), 8.87 (s, 1H), 7.94 (d, 2H), 7.86-7.82 (m, 2H), 7.61 (d, 2H), 7.54 (d, 1H), 6.40 (s, 2H).

#### Example 291

##### N-(4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-3-chloro-5-methoxyisonicotinamide

Example (i)-a B was processed as described in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 187-188 °C;

MS (DCI/NH<sub>3</sub>) m/e 482 (M+NH<sub>4</sub>)<sup>+</sup>;

5 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.81 (s, 1H), 7.98 (d, 2H), 7.85 (s, 1H), 7.65 (d, 2H), 7.58 (s, 1H), 7.35 (s, 1H), 3.95 (s, 3H).

#### Example 292

N-(6-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)-3-pyridinyl)-2-fluorobenzamide

10

#### Example 292A

5-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-2-nitropyridine

To a cold slurry (0°C) of sodium hydride (95%, 160 mg, 6.67 mmol) in dimethylformamide (10 mL) was added 3,5-bis(trifluoromethyl)pyrazole (1.12g, 5.50 mmol).  
15 The resulting suspension was stirred for 30 minutes. A solution of 2-chloro-4-nitropyridine (867 mg, 5.5 mmol) was added. The resulting mixture was heated at reflux for 12 hours, then cooled to room temperature. The mixture was poured into saturated sodium chloride solution (100 mL). The aqueous mixture was extracted with ethyl acetate (3 × 100 mL) and the combined organic layers were dried over sodium sulfate, filtered and concentrated. The  
20 residue was purified by flash column chromatography using 20% ethyl acetate/hexane to afford a yellow oil (1.78 g, 99% yield).

MS (DCI/NH<sub>3</sub>) m/e 326 (M + H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.39 (d, 1H), 8.86 (dd, 1H), 8.21 (d, 1H), 8.02 (s, 1H).

25

#### Example 292B

5-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-2-pyridinylamine

To a a slurry of 10% palladium on carbon (192 mg) in ethyl acetate (90 mL) under a nitrogen atmosphere was added a solution of Example 292A (1.77 g, 5.43 mmol) in ethyl acetate (10 mL). A hydrogen balloon was placed on the reaction flask and the reaction mixture  
30 was maintained under a hydrogen atmosphere for 20 hours. The reaction flask was purged with nitrogen and then the catalyst was filtered off through a diatomaceous earth/silica gel plug to afford an oil (1.20g, 75% yield).

MS (DCI/NH<sub>3</sub>) m/e 297 (M + H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.82 (d, 1H), 7.72 (s, 1H), 7.43 (d, 1H), 7.15 (dd, 1H), 5.90 (s, 2H).

Example 292

N-(6-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)-3-pyridinyl)-2-fluorobenzamide

5 Example 292B was processed as described in Method 5, 6, or 7 to provide the title compound.

mp 164-165 °C;

MS (DCI/NH<sub>3</sub>) m/e 419 (M + H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.96 (s, 1H), 8.88 (d, 1H), 8.45 (dd, 1H), 7.92 (d, 1H),

10 7.87(s, 1H), 7.77 (m, 1H), 7.66 (m, 1H), 7.40 (m, 2H).

Example 293

methyl 2-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)-5-((2-fluorobenzoyl)amino)benzoate

15 Example 293A

methyl 2-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-5-nitrobenzoate

3,5-Bis(trifluoromethyl)pyrazole (1.02 g, 5 mmol) in DMF (5 mL) was added to a mixture of NaH (23 mg, 5 mmol, 95%) in DMF (20 mL). The mixture turned brown in 5 minutes and was stirred at room temperature for one hour. Then methyl 2-fluoro-5-nitrobenzoate (1.0 g, 5.0 mmol)<sup>1</sup> in DMF (10 mL) was added to the solution drop wise via syringe. Upon finishing the addition, the solution was heated to 45 °C for 10 hours. Then it was cooled to room temperature, diluted with water (20 mL) and extracted with ethyl acetate (3 X 20 mL). The combined organic portions were washed with 1N HCl (2 X 20 mL), dried over Na<sub>2</sub>SO<sub>4</sub>, filtered and concentrated in vacuo. This crude product was chromatographed over silica gel, using ethyl acetate:hexanes (2:8 to 3:7) in sequence. The fractions were collected and concentrated in vacuo to give the title compound (1.5 g, 79% yield) as a brown oil.

Deutsch, J.; Niclas, H. J. *Synth. Commun.* **1991**, 21(4), 505-513.

MS (DCI/NH<sub>3</sub>) m/e 371 (M+NH<sub>4</sub>)<sup>+</sup>;

30 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.76-8.64 (m, 2H) 8.17 (d, 1H, J = 6 Hz), 7.94 (s, 1H).

Example 293B

methyl 5-amino-2-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]benzoate

The nitro group of Example 293A was reduced with iron powder and ammonium chloride as described in Example 355B..

mp 45-47°C;

MS (DCI/NH<sub>3</sub>) m/e 371 (M+NH<sub>4</sub>)<sup>+</sup>;

5 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.6 (s, H), 7.20 (d, 1H, J=6 Hz), 6.76 (dd, 1H, J=9,3 Hz), 5.92 (s, 2H), 3.46 (s, 3H).

#### Example 293

methyl 2-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)-5-((2-fluorobenzoyl)amino)benzoate

10 Example 293 B was processed as in Method 5 or 6, or 7 to provide the title compound.

MS (DCI/NH<sub>3</sub>) m/e 493 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.54 (d, 1H), 8.16 (dd, 1H), 7.80 (d, 1H), 7.76 (td, 1H), 7.69-7.60 (m, 1H), 7.45-7.35 (m, 2H), 3.65 (s, 3H).

#### Example 294

15 4-(aminomethyl)-N-(4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-chlorobenzamide

#### Example 294A

##### 4-cyano-2-chlorobenzoic acid

20 Under a nitrogen atmosphere, Zn(CN)<sub>2</sub> (58 mg, 0.50 mmol) and 4-bromo-2-chlorobenzoic acid (200 mg, 0.90 mmol) were added to dry dimethylformamide (5 mL), followed by tetrakis(triphenylphosphine)palladium(0) (43 mg, 0.036 mmol). The resulting yellow slurry was heated to 80 °C overnight. After it was cooled to room temperature, it was diluted with ethyl ether (20 mL), and washed with water (2 X 10 mL). Then the ethereal  
25 portion was collected, dried with Na<sub>2</sub>SO<sub>4</sub>, filtered and concentrated in vacuo to give 2-chloro-4-cyanobenzoic acid (60 mg, 37% yield) as a white solid.

Reference: Magidson, O.J.; Trawin, A.I. *Chem Ber.* **1936**, 69, 537-544.

#### Example 294B

30 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-4-cyanobenzamide

Example (i)-a B and Example 294A were processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

MS (DCI/NH<sub>3</sub>) m/e 476 (M+NH<sub>4</sub>)<sup>+</sup>

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.03 (s, 1H), 8.0 (d, 1H), 7.9 (m, 3H), 7.8 (s, 1H), 7.6 (d, 2H).

Example 294

5 4-(aminomethyl)-N-(4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-chlorobenzamide

To a solution of Example 294B (40 mg, 0.087 mmol) in methanol (10 mL) was added cobaltous chloride hexahydrate (23 mg, 0.17 mmol) and sodium borohydride (34 mg, 0.9 mmol) in portions at 0 °C with stirring. After 4 hours at 0 °C, the black slurry was acidified with 1N hydrochloric acid solution until the solid was totally dissolved. After removal of methanol in vacuo, the aqueous layer was made alkaline with NaOH solution and extracted with ethyl acetate (3 X 20 mL). The combine organic layers were washed with saturated sodium chloride solution (2 X 20 mL) and dried over Na<sub>2</sub>SO<sub>4</sub>, filtered and concentrated in vacuo to give the title compound (30 mg, 75% yield) as a pale yellow powder.

Reference: Suzuki, Y.; Miyaji, Y.; Imai, Z. *Tetrahedron Lett*, **1969**, 4555-4558.

15 mp 90-93°C;

MS (DCI/NH<sub>3</sub>) m/e 480 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.94 (d, 2H), 7.84 (s, 1H), 7.66-7.55 (m, 4H), 7.42 (d, 1H), 4.39 (s, 2H), 3.90 (s, 2H).

Example 295

20 N-(4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-methylacrylamide

Example (i)-a B and was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 160-162 °C;

MS (DCI/NH<sub>3</sub>) m/e 364 (M+H)<sup>+</sup>;

25 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.1 (s, 1H), 7.9 (d, 2H), 7.8 (s, 1H), 7.6 (d, 2H), 5.8 (d, 1H), 5.6 (d, 1H), 2.5 (s, 3H).

Example 296

30 N-(4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-4-chloro-2-fluorobenzamide

Example (i)-a B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 156-158 °C;

MS (ESI) m/e 486 (M+Cl)<sup>+</sup>; 450 (M-1)<sup>+</sup>;



<sup>1</sup>H NMR (300 MHz, CDCl<sub>3</sub>) δ 8.53 (d, 1H, J=16.2 Hz), 8.16 (dd, 1H, J=8.7, 8.4 Hz), 7.84 (m, 2H), 7.52 (m, 2H), 7.35 (dd, 1H, J=8.4, 1.8 Hz), 7.27 (dd, 1H, J=12.0, 1.8 Hz), 7.08 (s, 1H).  
Anal. Calcd for C<sub>18</sub>H<sub>9</sub>ClF<sub>7</sub>N<sub>3</sub>O: C, 47.86; H, 2.01; N, 9.30. Found: C, 48.14; H, 2.05; N, 9.11.

5

#### Example 297

#### N-(5-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)-2-pyridinyl)-2-fluorobenzamide

#### Example 297A

10

#### 5-chloro-2-nitropyridine

To cold (0 °C) concentrated sulfuric acid (80 mL) was added 30% hydrogen peroxide (40 mL). To this solution was added 2-amino-5-chloropyridine (4.00 g, 31.11 mmol). The solution became lime colored within 30 minutes. The reaction mixture was allowed to warm to room temperature and stirred for 20 hours. The reaction mixture was then poured into ice water and a white precipitate formed. This solid was filtered and dried in vacuo to afford 5-chloro-2-nitropyridine (3.10 g, 63% yield).

15

MS (DCI/NH<sub>3</sub>) m/e 129 (M+H for aniline)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.78 (m, 1H), 8.37 (m, 2H).

20

#### Example 297B

#### 5-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-2-nitropyridine

To a cold slurry (0 °C) of sodium hydride (95%, 439 mg, 18.30 mmol) in dimethylformamide 3.0 mL) was added 3,5-bis(trifluoromethyl)pyrazole (2.50 g, 12.30 mmol). The resulting suspension was stirred for 30 minutes. A solution of 5-chloro-2-nitropyridine (1.90 g, 12.00 mmol) was added. The resulting mixture was heated at reflux for 24 hours, then cooled to room temperature. The mixture was poured into saturated sodium chloride solution (100 mL). The aqueous mixture was extracted with ethyl acetate (3 x 100 mL) and the combined organic layers were dried over sodium sulfate, filtered and concentrated. The residue was purified by flash column chromatography using 20% ethyl acetate/hexane to afford a yellow oil (1.17 g, 30% yield).

25

30

MS (DCI/NH<sub>3</sub>) m/e 297 (M+1 for aniline)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.38 (d, 1H), 8.88 (dd, 1H), 8.21 (d, 1H), 8.02 (s, 1H).

#### Example 297C

5-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-2-pyridinamine

To a solution of Example 297B (183 mg, 0.54 mmol) in acetic acid (3.0 mL) was added zinc powder (71 mg, 1.10 mmol). The resulting mixture was heated at 70 °C for one hour. The reaction mixture was cooled and poured into saturated sodium bicarbonate solution (100 mL). The aqueous layer was extracted with ethyl acetate (3 x 100 mL). The combined organic layers were dried over sodium sulfate filtered and concentrated to a crude oil which was used in the next step without further purification.

MS (DCI/NH<sub>3</sub>) m/e 297 (M + H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.81 (d, 1H), 7.74 (s, 1H), 7.44 (d, 1H), 7.15 (dd, 1H), 5.93 (s, 2H).

Example 297

N-(5-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)-2-pyridinyl)-2-fluorobenzamide

Example 297C was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 153-155 °C;

MS (DCI/NH<sub>3</sub>) m/e 419 (M + H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.95 (s, 1H), 8.88 (d, 1H), 8.47 (dd, 1H), 7.92 (d, 1H), 7.87(s, 1H), 7.77 (m, 1H), 7.66 (m, 1H), 7.40 (m, 2H).

Example 298

N-{3-amino-4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl}-2-fluorobenzamide

Example 298A

2-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-5-nitrobenzoic acid

To a cold (0 °C) slurry of potassium hydride (35%, 1.09g, 9.55 mmol) in tetrahydrofuran (20.0 mL) was added 3,5-bis(trifluoromethyl)pyrazole (1.56 g, 7.64 mmol) in portions over 15 min. The resulting mixture was stirred at 0 °C for 30 min., then solid 2-fluoro-4-nitrobenzoic acid (708 mg, 3.82 mmol) was added. The mixture was heated at reflux for 20 hours, cooled, then poured into 1N HCl solution (100 mL). The aqueous layer was extracted with ethyl acetate (3 x 100 mL). The combined organic layers were dried over sodium sulfate, filtered and concentrated. The crude oil was used in the next step without purification (450 mg, 34%).

MS (DCI/NH<sub>3</sub>) m/e 357 (M+NH<sub>4</sub>)<sup>+</sup> (for corresponding aniline);

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.72 (d, 1H), 8.60 (dd, 1H), 8.09 (dd, 1H), 7.88 (s, 1H).

#### Example 298B

2-(trimethylsilyl)ethyl 2-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-5-nitrophenylcarbamate

5 A mixture of Example 298A (421 mg, 1.23 mmol), triethylamine (1.0 mL, 6.15 mmol), diphenylphosphorylazide (0.40 mL, 1.85 mmol) and β-trimethylsilylethanol (0.88 mL, 6.15 mmol) in toluene was heated at 70 °C for 20 hours. The reaction mixture was cooled and concentrated in vacuo. Purification of the crude residue with flash chromatography eluting with 10% ethyl acetate/hexane afforded the title compound (230 mg, 39% yield) as a yellow  
10 oil.

MS (DCI/NH<sub>3</sub>) m/e 502 (M + NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.82 (s, 1H), 8.81 (d, 1H), 8.03 (dd, 1H), 7.85 (s, 1H), 7.75 (d, 1H), 4.09 (t, 2H), 0.95 (t, 2H), 0.02 (s, 9H).

#### Example 298C

2-(trimethylsilyl)ethyl 5-amino-2-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenylcarbamate

Example 298B was reduced using general hydrogenation method described in method 4.

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.71 (s, 1H), 7.60 (s, 1H), 6.99 (dd, 1H), 6.38 (dd, 1H),  
20 5.68 (s, 2H), 4.03 (t, 2H), 0.91 (t, 2H), 0.02 (s, 9H).

#### Example 298D

2-(trimethylsilyl)ethyl 2-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-5-[(2-fluorobenzoyl)amino]phenylcarbamate

25 Example 298C was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

MS (DCI/NH<sub>3</sub>) m/e 594 (M + NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.78 (s, 1H), 9.24 (s, 1H), 8.25 (d, 1H), 7.74 (s, 1H), 7.65 (m, 3H), 7.38 (m, 3H), 4.05 (t, 2H), 0.95 (t, 2H), 0.02 (s, 9H).  
30

#### Example 298

N-[3-amino-4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-fluorobenzamide

A mixture of Example 298D (49 mg, 0.085 mmol) and tetrabutylammonium fluoride (0.15 mL, 0.15 mmol) in tetrahydrofuran (1.0 mL) and DMSO (1.0 mL) was heated at 80 °C for 48 hours. The reaction mixture was cooled and purified directly by flash chromatography using 40% ethyl acetate/hexane affording the title compound as an oil (37 mg, 99% yield).

5 MS (DCI/NH<sub>3</sub>) m/e 450 (M + NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.71 (s, 1H), 7.70-7.75 (m, 3H), 7.40-7.30 (m, 2H), 7.15 (d, 1H), 6.85 (dd, 1H), 5.38 (s, 2H).

#### Example 299

10 N-(4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)-3-cyanophenyl)-2-fluorobenzamide

#### Example 299A

##### 5-amino-2-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]benzonitrile

Sodium hydride (95%, 130 mg, 5.39 mmol) was combined with dimethylformamide (20 mL) under a nitrogen atmosphere. To this slurry was added a solution of 3,5-  
15 bis(trifluoromethyl)pyrazole (1 g, 4.9 mmol) in dimethylformamide (5 mL). The mixture turned brown in 5 minutes and was stirred at room temperature for one hour. Then 2-fluoro-5-nitro-benzonitrile (814 mg, 4.9 mmol) in dimethylformamide (10 mL) was added to the solution drop wise by syringe. Upon finishing addition, the solution was heated to 45 °C for  
20 10 hours. Then it was cooled to room temperature, diluted with H<sub>2</sub>O (20 mL) and extracted with ethyl acetate (3 X 20 mL). The combined organic portions were washed with 1N HCl (2 X 20 mL), dried over Na<sub>2</sub>SO<sub>4</sub>, filtered and concentrated in vacuo. This crude product, obtained as a brown oil (1.4 g, 84% yield), was used without additional purification.

25

#### Example 299B

##### 2-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-5-nitrobenzonitrile

The nitro group of Example 299A was reduced with iron powder and ammonium chloride as described in Example 355B.

mp 124-126°C;

30 MS (DCI/NH<sub>3</sub>) m/e 338 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.31 (s, 1H), 7.71 (d, 1H), 7.05 (d, 1H), 6.94 (dd, 1H).

#### Example 299

N-(4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)-3-cyanophenyl)-2-fluorobenzamide

Example 299B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 132-134°C;

MS (DCI/NH<sub>3</sub>) m/e 460 (M+NH<sub>4</sub>)<sup>+</sup>;

5 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.15 (s, 1H), 8.58 (d, 1H), 8.47 (d, 1H), 8.20 (dd, 1H), 8.04 (s, 1H), 7.47-8.28 (m, 4H).

### Example 300

N-[4-[5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-fluorobenzamide

10

### Example 300A

2,2,2-trifluoroacetaldehyde N-(4-nitrophenyl)hydrazone

A 1L round bottom flask equipped with a stir bar and a 250 mL pressure equalizing dropping funnel was charged with trifluoroacetic acid (10.0 mL, 130 mmol) and ether (350 mL). To this cold solution (0 °C) solution was added lithium aluminum hydride (1 M soln. in ether, 100 mL, 100 mmol) via the dropping funnel over 20 min. The resulting solution was stirred at 0 °C for 1 h. The reaction was quenched by the addition of methanol (10 mL), followed by water (10 mL), then concentrated HCl (17 mL). The ether layer was extracted with water (300 mL), then dried over sodium sulfate, filtered and concentrated. The crude material was used in the next step without further purification. A mixture of the trifluoroacetaldehyde thus produced (ca. 130 mmol), 4-nitrophenylhydrazine (15.02 g, 98.04 mmol), ethanol (250 mL) and concentrated HCl (5.0 mL) were heated to 100 °C for 2 hours. The reaction was cooled, approximately 90% of the ethanol was removed in vacuo, and then ether (350 mL) was added. The ether layer was washed with saturated sodium bicarbonate solution (300 mL), then dried over sodium sulfate, filtered and concentrated to a crude orange solid (22.8 g, 99%) which was pure enough to use in the next step.

25

MS (DCI/NH<sub>3</sub>) m/e 251 (M + NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.78 (s, 1H), 8.20 (d, 2H), 7.55 (q, 1H), 7.19 (d, 2H).

30

### Example 300B

2,2,2-trifluoro-N-(4-nitrophenyl)ethanehydrazonoyl chloride

To a solution of Example 300A (7.4 g, 0.031 mol) in DMF (30 mL) was added a solution of N-chlorosuccinimide (4.38 g, 0.033 mol, 1.05 eq) in DMF (15 mL) dropwise at 0 °C. After addition, the resulting dark green mixture was stirred at room temperature for two

hours. The reaction mixture was then poured into an ice water bath with stirring. A light brown solid formed after about 30 minutes at which point the solid was filtered, and dried in a vacuum oven at 40 °C for 12 hours to give 11 g of an orange solid which was pure enough to use in the next step.

5 MS (DCI/NH<sub>3</sub>) m/e 285 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.30 (s, 1H), 8.24 (d, 2H), 7.44 (d, 2H).

#### Example 300C

##### 1-(4-nitrophenyl)-3-(trifluoromethyl)-1H-pyrazole-5-carbonitrile

10 To a 250 mL round bottom flask charged with Example 300B (8.81g, 33.75 mmol) at room temperature was added toluene (68 mL) followed by 2-chloroacrylonitrile (5.4 mL, 67.5 mmol), then triethylamine (10.35 mL, 74.25 mmol). The resulting dark reaction mixture was heated to 80 °C for 1 hour. The reaction mixture was cooled and diluted with ethyl acetate (200 mL). The organic layer was washed with 1 N hydrochloric acid solution (150 mL), dried  
15 over sodium sulfate, filtered and concentrated. The crude residue was purified by flash chromatography using 10% ethyl acetate/90% hexane affording the title compound as a yellow oil (4.94 g, 58% yield).

MS (DCI/NH<sub>3</sub>) m/e 270 (M + NH<sub>4</sub>)<sup>+</sup> (For the corresponding aniline produced in the analysis.)

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.53 (d, 2H), 8.20 (s, 1H), 8.13 (d, 2H).

20

#### Example 300D

##### 1-(4-aminophenyl)-3-(trifluoromethyl)-1H-pyrazole-5-carbonitrile

To a 50 mL round bottom flask was Example 300C (1 g, 3.5 mmol), ammonium chloride (138 mg, 2.8 mmol, 0.8 eq), iron powder (1.59 g, 28 mmol, 8 eq) and a mixture of  
25 ethanol: H<sub>2</sub>O (3:1, 32 mL). The mixture was heated to reflux for 2 hours. After it was cooled to room temperature, the mixture was passed through a diatomaceous earth pad and the filtrate was concentrated in vacuo. The resulting solid was redissolved in dichloromethane (30 mL) and washed with NaHCO<sub>3</sub> solution (30 mL). The dichloromethane portion was dried with Na<sub>2</sub>SO<sub>4</sub> and concentrated in vacuo to give the amine (800 mg, 91%) as a crude brown solid  
30 which was pure enough to use in the next step.

MS (DCI/NH<sub>3</sub>) m/e 252 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.96 (s, 1H), 7.38 (d, 2H), 6.70 (d, 2H), 5.71 (s, 2H).

#### Example 300

N-{4-[5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl}-3-fluoroisonicotinamide

Example 300D was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 161-162 °C;

5 MS (DCI/NH<sub>3</sub>) m/e 393 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.05 (s, 1H), 8.79 (s, 1H), 8.62 (d, 1H), 8.07 (s, 1H), 7.96 (d, 2H), 7.81 (d, 2H), 7.75 (t, 1H);

<sup>13</sup>C NMR(DMSO-d<sub>6</sub>, 75 MHz) δ 161.3, 155.0 (d, J= 259 Hz), 146.4, 142.0 (q, J = 39 Hz), 139.9, 139.0 (d, J = 23 Hz), 133.1, 131.2 (d, J = 14 Hz), 124.9, 123.2, 120.5 (q, J = 262 Hz),  
10 120.5, 116.7, 114.7, 109.9.

Anal. calcd for C<sub>17</sub>H<sub>9</sub>F<sub>4</sub>N<sub>5</sub>O: C, 54.40; H, 2.41; N, 18.66. Found: C, 54.47; H, 2.52; N, 18.49.

Example 301

15 2-fluoro-N-(4-(5-(2-furyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)benzamide

Example 301A

5-(2-furyl)-1-(4-nitrophenyl)-3-(trifluoromethyl)-1H-pyrazole

4-Nitrophenylhydrazine (7.75 g, 50.5 mmol) in a mixture of absolute ethanol (75 mL) and concentrated HCl (40 mL) was treated with 4,4,4-trifluoro-1-(2-furyl)-1,3-butanedione (12.5 g, 60.6 mmol) and heated to reflux for 2 hours. The reaction mixture was cooled to  
20 room temperature and diluted with hexanes/ethyl acetate (600 mL of a 1:1 mixture). The layers were separated, and the organic layer was washed with 1.0 N HCl (3 x 100 mL) and then saturated brine solution. The resultant mixture was dried over Na<sub>2</sub>SO<sub>4</sub>, and concentrated  
25 in vacuo. Purification using silica gel chromatography (97:3 hexanes/ethyl acetate gradient to 95:5 hexanes/ethyl acetate) yielded a white amorphous solid (14.7 g, 90% yield).

<sup>1</sup>H NMR (300 MHz, CDCl<sub>3</sub>) δ 8.33 (dt, 2H, J=9.3,2.7Hz), 7.62 (dt, 2H, J=9.0,2.7Hz), 7.45 (dd, 1H, J=1.5, 0.6Hz), 6.92 (s, 1H), 6.47 (dd, 1H, J=3.6,1.5Hz), 6.39 (dd, 1H, J=3.3,0.6Hz).

30

Example 301B

4-[5-(2-furyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]aniline

A solution of Example 301A (1.2 g, 3.7 mmol) in isopropanol (80 mL) was treated with 10% Pd/C (400 mg) and placed under a hydrogen atmosphere (balloon). After 1.75 hours the reaction was complete and the mixture was filtered through a plug of diatomaceous

earth. Concentration in vacuo was followed by purification using silica gel chromatography (6:1 hexanes/ethyl acetate) yielding a white amorphous solid (1.0 g, 92% yield).

MS (ESI+) m/e 294 (M+1)<sup>+</sup>;

<sup>1</sup>H NMR (300 MHz, CD<sub>3</sub>OD) δ 7.55 (dd, 1H, J=1.8, 0.9 Hz), 7.13-7.08 (m, 2H), 6.95 (s, 1H),  
5 6.79 (m, 2H), 6.39 (dd, 1H, J=3.3, 1.8 Hz), 5.93 (d, 1H, J=3.6 Hz).

Example 3012-fluoro-N-(4-(5-(2-furyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)benzamide

Example 301B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the  
10 title compound.  
mp 171-172 °C;  
MS (DCI/NH<sub>3</sub>) m/e 433 (M+NH<sub>4</sub>)<sup>+</sup>; 416 (M+H)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.91 (m, 2H), 7.76 (dt, 1H), 7.62-7.54 (m, 2H), 7.45 (ddd,  
2H), 7.33 (dt, 1H), 7.27 (ddd, 1H), 7.02(s, 1H), 6.45(dd, 1H), 6.15(dd, 1H);  
15 <sup>13</sup>C NMR (DMSO-d<sub>6</sub>, 75 MHz) δ 145.1, 144.2, 141.2, 138.1, 136.6, 134.4, 134.3, 131.32,  
131.29, 127.9, 125.8, 125.7, 122.0, 117.5, 117.2, 112.6, 111.6, 104.5.

Example 302

N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-4-methyl-1,2,3-thiadiazole-5-  
20 carboxamide

Example 300D was processed as in Example (i)-a (Method 5, 6, or 7) to provide the  
title compound.  
mp 193-195 °C;  
MS (DCI/NH<sub>3</sub>) m/e 396 (M+NH<sub>4</sub>)<sup>+</sup>;  
25 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.05 (s, 1H), 8.07 (s, 1H), 7.94 (d, 2H), 7.82 (d, 2H), 2.84  
(s, 3H).

Example 303

N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide  
30 Example 300D was processed as in Example (i)-a (Method 5, 6, or 7) to provide the  
title compound.  
mp 145-146 °C;  
MS (DCI/NH<sub>3</sub>) m/e 358 (M+1)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.85 (s, 1H), 8.83 (d, 2H), 8.09 (s, 1H), 8.04 (d, 2H), 7.90  
35 (d, 2H), 7.82 (d, 2H).



Example 304N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide

Example 300D was processed as in Example (i)-a (Method 5, 6, or 7) to provide the  
5 title compound.  
mp 161-162 °C;  
MS (DCI/NH<sub>3</sub>) m/e 393 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.05 (s, 1H), 8.79 (s, 1H), 8.62 (d, 1H), 8.07 (s, 1H), 7.96  
(d, 2H), 7.81 (d, 2H), 7.75 (t, 1H);  
10 <sup>13</sup>C NMR (DMSO-d<sub>6</sub>, 75 MHz) δ 161.3, 155.0 (d, J = 259 Hz), 146.4, 142.0 (q, J = 39 Hz),  
139.9, 139.0 (d, J = 23 Hz), 133.1, 131.2 (d, J = 14 Hz), 124.9, 123.2, 120.5 (q, J = 262 Hz),  
120.5, 116.7, 114.7, 109.9.  
Anal. calcd for C<sub>17</sub>H<sub>9</sub>F<sub>4</sub>N<sub>5</sub>O: C, 54.40; H, 2.41; N, 18.66. Found: C, 54.47; H, 2.52; N,  
18.49.

15

Example 305N-(4-(5-acetyl-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluorobenzamideExample 305A1-(4-nitrophenyl)-3-(trifluoromethyl)-1H-pyrazole-5-carboxylic acid

Example 301A (3.7 g, 11.6 mmol) in a mixture of *tert*-butanol (65 mL) and 0.5 N  
NaOH (35 mL) was treated with KMnO<sub>4</sub> (4.5 g, 28.5 mmol) and heated at 75 °C for 1 hour.  
The mixture was cooled to ambient temperature, and the second portion of KMnO<sub>4</sub> (4.5 g,  
28.5 mmol) was added. After stirring for an additional 1 hour at 75 °C, the reaction mixture  
25 was cooled to ambient temperature and filtered through a thick plug of diatomaceous earth.  
The diatomaceous earth was washed with water (3 x 100 mL). The combined washes were  
concentrated to 50% of the original volume and acidified to pH=3 with 50% HCl solution.  
Next, the mixture was extracted with ethyl acetate (3 x 100 mL) and the combined extracts  
were dried over Na<sub>2</sub>SO<sub>4</sub>, and concentrated in vacuo. Purification using silica gel  
30 chromatography (75:20:5 hexanes/ethyl acetate/acetic acid gradient to 55:35:10 hexanes/ethyl  
acetate/acetic acid) yielded a white amorphous solid (1.8 g, 51% yield) along with 1.3 g of the  
corresponding ketoacid intermediate. The ketoacid intermediate was resubmitted to the  
conditions above to produce additional carboxylic acid (300 mg, yield after resubmission  
60%, unoptimized).

35 MS (ESI-) m/e 300 (M-1)<sup>-</sup>;

<sup>1</sup>HNMR (300 MHz, DMSO-d<sub>6</sub>) δ 8.32 (d, 2H, J= 8.8 Hz), 7.84 (d, 2H, J= 8.8 Hz), 7.16 (s, 1H).

#### Example 305B

##### *N*-methoxy-*N*-methyl-1-(4-nitrophenyl)-3-(trifluoromethyl)-1*H*-pyrazole-5-carboxamide

Example 305A (1.8 g, 5.9 mmol) in CH<sub>2</sub>Cl<sub>2</sub> (25 mL, 0.2 M) was treated with *N,O*-dimethylhydroxylamine hydrochloride (674 mg, 6.9 mmol), EDC (1.1 g, 5.9 mmol), 4-methylmorpholine (1.6 mL, 14.6 mmol), and 1-hydroxybenzotriazole hydrate (742 mg, 5.5 mmol). The mixture was stirred for 14 hours, then washed with 10% aqueous NaHSO<sub>4</sub>. The organic layer was dried over Na<sub>2</sub>SO<sub>4</sub>, and concentrated in vacuo. Purification using silica gel chromatography (2:1 hexanes/ethyl acetate) yielded a white foam (1.8 g, 83% yield).

MS (ESI+) *m/e* 345 (M+1)<sup>+</sup>;

<sup>1</sup>HNMR (300 MHz, CDCl<sub>3</sub>) δ 8.35 (ddd, 2H, J=8.7,3.0,1.8Hz), 7.68 (ddd, 2H, J=9.3, 2.7, 2.1Hz), 7.08 (s, 1H), 3.64 (s, 3H), 3.31 (s, 3H).

#### Example 305C

##### 1-(4-aminophenyl)-*N*-methoxy-*N*-methyl-3-(trifluoromethyl)-1*H*-pyrazole-5-carboxamide

Example 305B (1.2 g, 3.5 mmol) in an ethanol/water mixture (36 mL, 2:1 ratio respectively) was treated with iron powder (1.2 g) and ammonium chloride (120 mg). The mixture was heated at 80 °C for 35 minutes. The mixture was diluted with ethyl acetate (20 mL) and filtered through a thin plug of diatomaceous earth and concentrated in vacuo. Purification using silica gel chromatography (1:1 hexanes/ethyl acetate gradient to 1:2 hexanes/ethyl acetate) yielded a white foam (1.0 g, 94% yield).

MS (ESI+) *m/e* 315 (M+1)<sup>+</sup>;

<sup>1</sup>HNMR (300 MHz, CD<sub>3</sub>OD) δ 7.16 (ddd, 2H, J=8.7,3.0, 2.1Hz), 7.02 (s, 1H), 6.74 (ddd, 2H, J=9.0, 3.0, 2.4Hz), 3.58 (s, 3H), 3.20 (s, 3H).

#### Example 305D

##### 1-[1-(4-aminophenyl)-3-(trifluoromethyl)-1*H*-pyrazol-5-yl]-1-ethanone

Example 305C (56 mg, 0.18 mmol) in THF (2 mL) was slowly added to methyllithium (330 μL of a 1.4 M solution in diethyl ether, 0.46 mmol) at 0 °C. The reaction was stirred at 0 °C for five minutes then 10% aqueous NaHSO<sub>4</sub> was added. The aqueous layer was back extracted with ethyl acetate (3 x 5 mL) and the combined extracts were concentrated in vacuo.

The mixture was purified by silica gel chromatography (1:1 hexanes/ethyl acetate) to yield a white foam (36 mg, 75% yield). MS (ESI+) m/e 270 (M+1)<sup>+</sup>;

<sup>1</sup>H NMR (300 MHz, DMSO-d<sub>6</sub>) δ 7.72 (s, 1H), 7.06 (ddd, 2H, J=8.4, 3.0, 2.1Hz), 6.58 (ddd, 2H, J=8.7, 3.0, 2.1Hz), 5.47 (s, 2H), 2.49 (s, 3H).

5

#### Example 305

##### N-(4-(5-acetyl-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluorobenzamide

Example 305 D was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

10 mp 188-189 °C;

MS (ESI+) m/e 393 (M+1)<sup>+</sup>;

<sup>1</sup>H NMR (400 MHz, DMSO-d<sub>6</sub>) δ 10.93 (s, 1H), 8.78 (d, 1H, J=1.6Hz), 8.62 (dd, 1H, J=4.8, 1.2Hz), 7.86 (s, 1H), 7.82 (ddd, 2H, J=8.8, 6.8, 2.8Hz), 7.74 (t, 1H, J=5.3Hz), 7.50 (ddd, 2H, J=8.8, 7.2, 3.2Hz), 2.57 (s, 3H);

15 <sup>13</sup>C NMR (100 MHz, DMSO- d<sub>6</sub>) δ 187.8, 161.0, 156.3, 153.7, 146.4, 141.2, 141.0, 140.6, 139.0, 138.9, 135.4, 131.4, 131.2, 126.5, 123.2, 122.2, 119.7, 119.6, 111.1, 28.8;

Anal. calcd for C<sub>18</sub>H<sub>12</sub>F<sub>4</sub>N<sub>4</sub>O<sub>2</sub>: C, 55.11; H, 3.08; N, 14.28. Found: C, 55.05; H, 3.33; N, 13.71.

20

#### Example 306

##### N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluoronicotinamide

Example 300D was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 150-151 °C;

25 MS (DCI/NH<sub>3</sub>) m/e 393 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.96 (s, 1H), 8.44 (d, 1H), 8.30 (td, 1H), 8.09 (s, 1H), 7.97 (d, 2H), 7.82 (d, 2H), 7.59-7.52 (m, 1H).

#### Example 307

30 N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2,3,5-trifluorobenzamide

Example 300D was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

MS (DCI/NH<sub>3</sub>) m/e 428 (M + NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.99 (s, 1H), 8.09 (s, 1H), 7.96 (d, 2H), 7.83 (s, 1H), 7.82 (d, 1H), 7.9-7.50 (m, 1H).

Example 308

5     2-fluoro-N-(4-(5-(2-thienyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)benzamide

Example 308A

1-(4-nitrophenyl)-5-(2-thienyl)-3-(trifluoromethyl)-1H-pyrazole

Sodium methoxide (0.46g, 8.52 mmol) in diethyl ether (15 mL) was added dropwise  
10     to methyl trifluoroacetate (0.82 mL, 7.79 mmol) in diethyl ether (10 mL). 2-Acetyl-  
thiophene (1 g, 7.79 mmol) in diethyl ether (10 mL) was subsequently added, and the mixture  
was heated to reflux for 16 hours. After cooling to room temperature, the mixture was  
concentrated to dryness. The crude intermediate was taken into ethanol (20 mL), and then  
concentrated HCl (5 mL) and 4-nitrophenylhydrazine (1.21 g, 7.79 mmol) were added  
15     followed by heating to reflux for 16 hours. The mixture was freed of solvent and used without  
additional purification.

MS (DCI/NH<sub>3</sub>) m/e 310 (M+H)<sup>+</sup> (For aniline produced under analysis conditions.);

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.38 (d, 2H), 7.78 (d, 2H), 7.72 (dd, 1H), 7.40 (s, 1H),  
7.21 (dd, 1H), 7.13 (dd, 1H).

20

Example 308B

4-[5-(2-thienyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]aniline

The above intermediate was taken into ethanol/water (50 mL, 3:1/v:v), iron powder  
(3.04 g, 54.53 mmol) and ammonium chloride (0.41 g, 7.79 mmol) were added, and the  
25     mixture was heated to reflux for 1 hour. The mixture was filtered through diatomaceous earth  
(5 g) and freed of solvent. The product was purified by silica gel chromatography (37 g)  
eluting with 50% acetone in hexanes (v:v). Yield (0.36 g, 15% for three steps).  
MS (DCI/NH<sub>3</sub>) m/e 310 (M+H)<sup>+</sup>.

30

Example 308

2-fluoro-N-(4-(5-(2-thienyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)benzamide

Example 308B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the  
title compound.

mp 154-156 °C;

MS (DCI/NH<sub>3</sub>) m/e 449 (M+NH<sub>4</sub>)<sup>+</sup>; 432 (M+H)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.75 (s, 1H), 7.9 (d, 2H), 7.75-7.65 (m, 1H), 7.7 (dd, 1H),  
7.65-7.55 (m, 1H), 7.5 (d, 2H), 7.45-7.30 (m, 2H), 7.3 (s, 1H), 7.25 (dd, 1H), 7.1 (m, 1H).

5

Example 3092-fluoro-N-(4-(5-(methylsulfonyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)benzamideExamples 309A-1 and 309A-25-(methylsulfonyl)-1-(4-nitrophenyl)-3-(trifluoromethyl)-1H-pyrazole

10

and1-(4-nitrophenyl)-3-(trifluoromethyl)-1H-pyrazol-5-ol

S-Methyl 4,4,4-trifluoro-3-oxothiobutyrate (2.76 mL, 0.02 mol) and p-nitrophenylhydrazine (3.06 g, 0.02 mol) were dissolved in ethanol 18 mL and 4M HCl/dioxane (18 mL). The solution was refluxed overnight. After cooling the reaction mixture to room temperature, it was partitioned between ether and water. The ether layer was extracted with saturated aqueous NaHCO<sub>3</sub> (3x), washed with brine, dried over Na<sub>2</sub>SO<sub>4</sub> and evaporated to give 5-(methylsulfonyl)-1-(4-nitrophenyl)-3-(trifluoromethyl)-1H-pyrazole (Example 309A-1, 0.61 g, 10% yield). The NaHCO<sub>3</sub> extractions were combined and washed with ether. The NaHCO<sub>3</sub> solution was then acidified with 1N HCl to pH~5 and extracted with ether (3x). The ether extracts were combined, dried over Na<sub>2</sub>SO<sub>4</sub> and concentrated to give 1-(4-nitrophenyl)-3-(trifluoromethyl)-1H-pyrazol-5-ol (Example 309A-2, 4.02 g, 74% yield).

20  
Example 309A-1:MS (DCI/NH<sub>3</sub>) m/e 304 (M+H)<sup>+</sup>;<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.44 (d, 2H), 7.94 (d, 2H), 7.18 (s, 1H), 2.6 (s, 3H).25  
Example 309A-2:MS (DCI/NH<sub>3</sub>) m/e 291 (M+NH<sub>4</sub>)<sup>+</sup>;<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.39 (d, 2H), 8.1 (d, 2H), 6.0 (s, 1H).Example 309B

30

4-[5-(methylsulfonyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]aniline

Example 309A-1 was reduced with Fe powder as described previously to give the title compound in 75% yield.

MS (DCI/NH<sub>3</sub>) m/e 291(M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.12 (d, 2H), 6.9 (s, 1H), 6.63 (d, 2H), 5.55 (s, 2H), 2.5 (s, 3H).

Example 309

5     2-fluoro-N-(4-(5-(methylsulfanyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)benzamide

Example 309B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 162-163 °C;

MS (DCI/NH<sub>3</sub>) m/e 413 (M+NH<sub>4</sub>)<sup>+</sup>;

10     <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.7 (s, 1H), 7.91 (d, 2H), 7.7 (t, 1H), 7.6 (m, 1H), 7.55 (d, 2H), 7.37 (m, 2H), 7.02 (s, 1H), 2.53 (s, 3H).

Example 310 2-fluoro-N-(4-(5-(3-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)benzamide

15

Example 310A

4-[5-(3-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]aniline

Sodium methoxide (0.46g, 8.52 mmol) in diethyl ether (15 mL) was added dropwise to methyl trifluoroacetate (0.83 mL, 7.85 mmol) in diethyl ether (10 mL). 2-Acetyl-pyridine  
20 (0.88 mL, 7.85 mmol) in diethyl ether (10 mL) was then added, and the mixture was heated to reflux for 16 hours. The mixture was freed of solvent and then redissolved in ethanol (20 mL). Concentrated HCl (5 mL) and 4-nitrophenylhydrazine (1.21 g, 7.85 mmol) were added, and the mixture was heated to reflux for 16 hours. A solvent change to ethanol/water (50 mL, 3:1 v:v) was performed, iron powder (3.04 g, 54.53 mmol) and ammonium chloride (0.41 g,  
25 7.79 mmol) were added, and the mixture was heated to reflux for 1 hour. The reaction mixture was filtered through diatomaceous earth (5 g), and the filtrate was concentrated to dryness. The product was purified by silica gel chromatography (75 mL silica gel) eluting with 50% acetone in hexanes (v:v). Yield (0.57 g, 22% for three steps).

MS (DCI/NH<sub>3</sub>) m/e 305 (M+H)<sup>+</sup>;

30     <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.10 (m, 1H), 8.59 (dd, 1H), 8.26 (dt, 1H), 7.70 (s, 1H), 7.49 (m, 1H), 7.28 (d, 2H), 6.67 (d, 2H), 5.60 (s, 2H),

Example 310

2-fluoro-N-(4-(5-(3-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)benzamide

Example 310B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 138-140 °C;

MS (DCI/NH<sub>3</sub>) m/e 427 (M+H)<sup>+</sup>;

5 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.7 (s, 1H), 8.6-8.6 (m, 2H), 7.8 (d, 2H), 7.7-7.65 (m, 2H), 7.65-7.55 (m, 1H), 7.45-7.3 (m, 6H).

#### Example 311

3-fluoro-N-(4-(5-(2-thienyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide

10 Example 308B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 153-155 °C;

MS (DCI/NH<sub>3</sub>) m/e 433 (M+H)<sup>+</sup>;

15 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.0 (s, 1H), 8.8 (s, 1H), 8.6 (d, 1H), 7.9 (d, 2H), 7.75 (t, 1H), 7.6 (d, 1H), 7.5 (d, 2H), 7.3 (s, 1H), 7.25 (d, 1H), 7.1 (m, 1H).

#### Example 312

N-(4-(5-methoxy-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide

20

#### Example 312A

methyl 1-(4-nitrophenyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl ether

To a mixture of Example 309A-2 (0.776 g, 2.84 mmol) and K<sub>2</sub>CO<sub>3</sub> (0.94 g, 6.8 mmol) in acetonitrile (10 mL) was added dimethyl sulfate (0.32 mL, 3.4 mmol). Then the reaction mixture was stirred at room temperature overnight. The reaction mixture was diluted with  
25 ether and washed with brine. After evaporation of the solvent, the crude was passed through short silica gel plug eluting with methylene chloride to give the title compound (0.71 g, 88% yield).

MS (DCI/NH<sub>3</sub>) m/e 305 (M+NH<sub>4</sub>)<sup>+</sup>;

30 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.39 (d, 2H), 8.03 (d, 2H), 6.59 (s, 1H), 4.08 (s, 3H).

#### Example 312B

4-[5-methoxy-3-(trifluoromethyl)-1H-pyrazol-1-yl]aniline

Reduction of the nitro group of Example 312A with Fe powder gave the title compound in 82% yield.

MS (DCI/NH<sub>3</sub>) m/e 275 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.18 (d, 2H), 6.61 (d, 2H), 6.36 (s, 1H), 5.41 (s, 2H), 3.94 (s, 3H).

5

#### Example 312

N-(4-(5-methoxy-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide

Example 312B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 181-182 °C;

10 

MS (DCI/NH<sub>3</sub>) m/e 380 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.61 (s, 1H), 8.8 (d, 2H), 7.94 (d, 2H), 7.89 (d, 2H), 7.66 (d, 2H), 6.49 (s, 1H), 4.02 (s, 3H).

#### Example 313

15 

2-fluoro-N-(4-(5-methoxy-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)benzamide

Example 312B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 167-168 °C;

MS (DCI/NH<sub>3</sub>) m/e 397 (M+NH<sub>4</sub>)<sup>+</sup>;

20 

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.61 (s, 1H), 7.86 (d, 2H), 7.69 (t, 1H), 7.64 (d, 2H), 7.6 (m, 1H), 7.35 (m, 2H), 6.46 (s, 1H), 4.01 (s, 3H).

#### Example 314

25 

N-(4-(5-methoxy-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-4-methyl-1,2,3-thiadiazole-5-carboxamide

Example 312B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 159-160 °C;

MS (DCI/NH<sub>3</sub>) m/e 401 (M+NH<sub>4</sub>)<sup>+</sup>;

30 

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.92 (s, 1H), 7.84 (d, 2H), 7.66 (d, 2H), 6.49 (s, 1H), 4.01 (s, 3H), 2.84 (s, 3H).

#### Example 315



N-(4-(5-acetyl-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluoronicotinamide

Example 305 D was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 188-189 °C;

5 MS (ESI+) m/e 393 (M+1)<sup>+</sup>;

<sup>1</sup>H NMR (400 MHz, DMSO-d<sub>6</sub>) δ 10.93 (s, 1H), 8.78 (d, 1H, J=1.6Hz), 8.62 (dd, 1H, J=4.8, 1.2Hz), 7.86 (s, 1H), 7.82 (ddd, 2H, J=8.8, 6.8, 2.8Hz), 7.74 (t, 1H, J=5.3Hz), 7.50 (ddd, 2H, J=8.8, 7.2, 3.2Hz), 2.57 (s, 3H);

10 <sup>13</sup>C NMR (100 MHz, DMSO-d<sub>6</sub>) δ 187.8, 161.0, 156.3, 153.7, 146.4, 141.2, 141.0, 140.6, 139.0, 138.9, 135.4, 131.4, 131.2, 126.5, 123.2, 122.2, 119.7, 119.6, 111.1, 28.8;

Anal. calcd for C<sub>18</sub>H<sub>12</sub>F<sub>4</sub>N<sub>4</sub>O<sub>2</sub>: C, 55.11; H, 3.08; N, 14.28. Found: C, 55.05; H, 3.33; N, 13.71.

Example 316

15 2-fluoro-N-(4-(5-(methylsulfonyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)nicotinamide

Example 309B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 167-168 °C;

MS (DCI/NH<sub>3</sub>) m/e 414 (M+NH<sub>4</sub>)<sup>+</sup>;

20 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.88 (s, 1H), 8.43 (m, 1H), 8.3 (m, 1H), 7.9 (d, 2H), 7.58 (d, 2H), 7.55 (m, 1H), 7.04 (s, 1H), 2.55 (s, 3H).

Example 317

2-fluoro-N-(4-(5-methoxy-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)nicotinamide

25 Example 312B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 153-154 °C;

MS (DCI/NH<sub>3</sub>) m/e 398 (M+NH<sub>4</sub>)<sup>+</sup>;

30 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.78 (s, 1H), 8.42 (m, 1H), 8.29 (m, 1H), 7.86 (d, 2H), 7.66 (d, 2H), 7.53 (m, 1H), 6.48 (s, 1H), 4.0 (s, 3H).

Example 318

3-fluoro-N-(4-(3-(4-pyridinyl)-5-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide

Example 318A4-[3-(4-pyridinyl)-5-(trifluoromethyl)-1H-pyrazol-1-yl]aniline

Sodium methoxide (2.6 g, 48.1 mmol) in diethyl ether (30 mL) was added dropwise to methyl trifluoroacetate (4.1 mL, 40.8 mmol) in diethyl ether (10 mL). 4-Acetylpyridine (4.58 mL, 41.3 mmol) in diethyl ether (10 mL) was then added, and the mixture was heated to reflux for 16 hours. The mixture was freed of solvent and then redissolved in ethanol (200 mL). Concentrated HCl (41 mL) and 4-nitrophenylhydrazine (6.3 g, 41.2 mmol) were added, and the mixture was heated to reflux for 16 hours. A solvent change to ethanol/water (250 mL, 3:1 v:v) was performed, iron powder (10 g, 179 mmol) and ammonium chloride (2.5 g, 47.2 mmol) were added, and the mixture was heated to reflux for 1 hour. The reaction mixture was filtered through diatomaceous earth (50 g), and the filtrate was concentrated to dryness. The product was purified by silica gel chromatography (200 mL silica gel) eluting with 50% acetone in hexanes (v:v). Yield (2.26 g, 18% for three steps). MS (DCI/NH<sub>3</sub>) m/e 305 (M+H)<sup>+</sup>. <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.70 (d, 2H), 7.90 (d, 2H), 7.80 (s, 1H), 7.15 (d, 2H), 6.65 (d, 2H), 5.60 (s, 2H).

Example 3183-fluoro-N-(4-(3-(4-pyridinyl)-5-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide

Example 318A was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.  
mp 148-152 °C;  
MS (DCI/NH<sub>3</sub>) m/e 428 (M+H)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.05 (s, 1H), 8.8 (d, 1H), 8.7 (d, 2H), 8.4 (dd, 1H), 7.9-7.8 (m, 5H), 7.75 (t, 1H), 7.65 (d, 2H);  
<sup>13</sup>C NMR (DMSO-d<sub>6</sub>, 75 MHz) δ 161.2, 156.7, 153.3, 150.4, 150.3, 148.6, 146.4, 146.3, 139.6, 139.1, 138.8, 138.3, 134.0, 126.7, 124.8, 132.2, 121.2, 120.2, 119.8, 117.6, 114.1, 107.7, 107.6;  
Anal. calcd for C<sub>21</sub>H<sub>13</sub>F<sub>4</sub>N<sub>5</sub>O: C, 59.02; H, 3.06; N, 16.38. Found: C, 58.82; H, 3.20; N, 16.44.

Example 319 N-(4-(5-ethoxy-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluoronicotinamideExample 319A

4-[5-ethoxy-3-(trifluoromethyl)-1H-pyrazol-1-yl]aniline

Example 309A-2 was alkylated as described in Example 312A (substituting ethyl bromide for dimethyl sulfate). Yield, 65%. Subsequent reduction with iron powder supplied the aniline. Yield, 71%.

5 MS (DCI/NH<sub>3</sub>) m/e 289 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.18 (d, 2H), 6.62 (d, 2H), 6.34 (s, 1H), 5.4 (s, 2H), 4.23 (q, 2H), 1.34 (t, 3H).

Example 319

10 N-(4-(5-ethoxy-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluoronicotinamide

Example 319A was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 152-153 °C;

MS (DCI/NH<sub>3</sub>) m/e 412 (M+NH<sub>4</sub>)<sup>+</sup>;

15 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.3 (s, 1H), 8.92 (m, 1H), 8.28 (m, 1H), 7.85 (d, 2H), 7.67 (d, 2H), 7.54 (m, 1H), 6.48 (s, 1H), 4.3 (q, 2H), 1.38 (t, 3H).

Example 320

3-fluoro-N-(4-(5-(methylsulfanyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide

20

Example 309B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 142-143 °C;

MS (DCI/NH<sub>3</sub>) m/e 414 (M+NH<sub>4</sub>)<sup>+</sup>;

25 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.79 (s, 1H), 8.62 (d, 1H), 7.9 (d, 2H), 7.76 (t, 1H), 7.59 (d, 2H), 7.04 (s, 1H), 2.58 (s, 3H).

Example 321

3-fluoro-N-(4-(5-methoxy-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide

30

Example 312B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 160-161 °C;

MS (DCI/NH<sub>3</sub>) m/e 398 (M+NH<sub>4</sub>)<sup>+</sup>;

35 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.79 (s, 1H), 8.61 (d, 1H), 7.76 (d, 2H), 7.74 (t, 1H), 7.68 (d, 2H), 6.49 (s, 1H), 4.01 (s, 3H).

Example 322

N-(4-(5-(difluoromethoxy)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide

Example 322A5-(difluoromethoxy)-1-(4-nitrophenyl)-3-(trifluoromethyl)-1H-pyrazole

To a solution of Example 309A-2 (1.00 g, 3.66 mmol) in dry dimethylformamide (10 mL) was added potassium carbonate (1.42 g, 10.3 mmol). This mixture was heated for 5 minutes at 80 °C, then chlorodifluoromethane was bubbled through the reaction mixture for 30 minutes while maintaining the temperature at 80 °C. Introduction of chlorodifluoromethane was stopped after 30 min, then the reaction mixture was heated an additional 30 min. The reaction mixture was partitioned between ether and water. The ether layer was separated and washed with brine, dried over sodium sulfate, filtered and concentrated to give the crude difluoromethoxyether (0.90g, 76% yield) which was sufficiently pure to use in the next step. MS (DCI/NH<sub>3</sub>) m/e 311 (M+NH<sub>4</sub>)<sup>+</sup> (For corresponding aniline produced by analysis.); <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.44 (d, 2H), 7.98 (d, 2H), 7.2-7.68 (t, 1H), 6.94 (s, 1H).

Example 322B4-[5-(difluoromethoxy)-3-(trifluoromethyl)-1H-pyrazol-1-yl]aniline

A mixture of the Example 322A (0.90g, 2.79 mmol), iron powder (1.25 g) and ammonium chloride (0.125g) in ethanol (12 mL) and water (4 mL) was heated to 100 °C for 30 minutes. Then the reaction mixture was cooled to room temperature and partitioned between ether and brine. The ether layer was dried over sodium sulfate and concentrated to give the crude amine, which was dissolved in methylene chloride and passed through a short silica gel plug to give the pure amine (0.80g, 97% yield). MS (DCI/NH<sub>3</sub>) m/e 311 (M+NH<sub>4</sub>)<sup>+</sup>; <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.18 (d, 2H), 7.11-7.59 (t, 1H), 6.73 (s, 1H), 6.65 (d, 2H), 5.55 (s, 2H).

Example 322

N-(4-(5-(difluoromethoxy)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide

Example 322B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.  
mp 154-155 °C;



93% hexane/7% ethyl acetate to afford the title compound as a light yellow oil (3.10 g, 63% yield).

MS (DCI/NH<sub>3</sub>) m/e 279 (M+NH<sub>4</sub>)<sup>+</sup> (for the corresponding aniline produced in the analysis);

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.47(d, 2H), 8.02 (d, 2H), 7.44 (s, 1H).

5

#### Example 325B

##### 4-[5-chloro-3-(trifluoromethyl)-1H-pyrazol-1-yl]aniline

The nitro group of Example 325A was reduced with by the iron reduction procedure described previously.

10 MS (DCI/NH<sub>3</sub>) m/e 279 (M + NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.19 (s, 1H), 7.18 (d, 2H), 6.65 (d, 2H), 5.62 (s, 2H).

#### Example 325

##### N-(4-(5-chloro-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluoronicotinamide

15 Example 325B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

MS (DCI/NH<sub>3</sub>) m/e 402 (M + NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.91 (s, 1H), 8.45 (d, 1H), 8.30 (dt, 1H), 7.93 (d, 2H),  
7.63 (d, 2H), 7.57 (dt, 1H), 7.31 (s, 1H).

20

#### Example 326

##### 2-fluoro-N-(4-(5-nitro-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)benzamide

#### Example 326A

25 tert-butyl 1-(4-nitrophenyl)-3-(trifluoromethyl)-1H-pyrazol-5-ylcarbamate

To a solution of Example 305A (2.11 g, 6.96 mmol) in toluene (40.0 mL) was added triethylamine (1.5 mL, 10.4 mmol) followed by diphenylphosphorylazide (2.25 mL, 10.4 mmol) and tert-butanol (4.7 mL, 48.7 mmol). The resulting mixture was heated at 80 °C for 20 hours. The reaction mixture was cooled and concentrated. The crude oil was  
30 chromatographed with 25% ethyl acetate/75% hexane to afford the title compound as a thick yellow oil (2.59 g, 99% yield).

MS (DCI/NH<sub>3</sub>) m/e 373 (M + H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.79 (s, 1H), 8.45 (d, 2H), 7.88 (d, 2H), 6.88 (s, 1H), 1.32 (s, 9H).

Example 326B*tert*-butyl 1-(4-aminophenyl)-3-(trifluoromethyl)-1*H*-pyrazol-5-ylcarbamate

The nitro group of Example 326A was reduced with by the iron reduction procedure described previously.  
MS (DCI/NH<sub>3</sub>) m/e 343 (M + H)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.16 (s, 1H), 7.10 (d, 2H), 6.69 (s, 1H), 6.64 (d, 2H), 1.33 (s, 9H).

Example 326C*tert*-butyl 1-{4-[2-(2-fluorobenzoyl)amino]phenyl}-3-(trifluoromethyl)-1*H*-pyrazol-5-ylcarbamate

Example 326B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.  
MS (DCI/NH<sub>3</sub>) m/e 465 (M + H)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.66 (s, 1H), 9.43 (s, 1H), 8.10 (dt, 1H), 7.89 (d, 2H), 7.70 (dt, 1H), 7.51 (d, 2H), 7.50-7.29 (m, 2H), 6.79 (s, 1H), 1.34 (s, 9H).

Example 3262-fluoro-N-(4-(5-nitro-3-(trifluoromethyl)-1*H*-pyrazol-1-yl)phenyl)benzamide

To an ice cold (0 °C) flask containing Example 326C (25 mg, 0.054 mmol) was added sulfuric acid (1 mL). This mixture was stirred at room temperature for 30 min. 30% Hydrogen peroxide (0.5 mL) solution was then added and the resulting mixture was stirred at room temperature for 20 hours. The mixture was poured into saturated sodium bicarbonate solution (30 mL), and the aqueous layer was extracted with ethyl acetate (3 x 30 mL) The combined organic layers was dried over sodium sulfate, filtered and concentrated. The crude oil was purified by flash column chromatography with 10% ethyl acetate/90% hexane to afford the title compound as an oil (7 mg, 33% yield).  
MS (DCI/NH<sub>3</sub>) m/e 412 (M + NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.76 (s, 1H), 8.15 (s, 1H), 7.91 (d, 2H), 7.75-7.58 (m, 3H), 7.67 (d, 2H), 7.43- 7.27 (m, 2H).

Example 327

N-(4-(5-(difluoromethoxy)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide

Example 322B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 135-136 °C;

MS (DCI/NH<sub>3</sub>) m/e 434 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.98(s, 1H), 8.79 (s, 1H), 8.62 (d, 1H), 7.9 (d, 2H), 7.74 (t, 1H), 7.66 (d, 2H), 7.16-7.66 (t, 1H), 6.85 (s, 1H).

Example 328

N-(4-(5-chloro-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide

Example 325B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 128-129 °C;

MS (DCI/NH<sub>3</sub>) m/e 412 (M + NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.03 (s, 1H), 8.80 (s, 1H), 8.63 (d, 1H), 7.93 (d, 2H), 7.75 (t, 1H), 7.67 (d, 2H), 7.32 (s, 1H);

<sup>13</sup>C NMR (DMSO-d<sub>6</sub>, 75 MHz) δ 161.2, 154.5, 146.4, 141.8, 139.4, 139.0, 132.6, 131.2, 129.1, 126.4, 123.3, 121.0, 120.3, 105.0;

Anal. calcd for C<sub>16</sub>H<sub>9</sub>ClF<sub>4</sub>N<sub>4</sub>O: C, 49.95; H, 2.35; N, 14.56. Found: C, 50.07; H, 2.46; N, 14.47.

Example 329

N-(4-(5-(difluoromethyl)-3-(3-pyridinyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide

Example 329A

nicotinaldehyde N-(4-nitrophenyl)hydrazone

3-Pyridine carboxaldehyde (3.69 mL, 0.04 mol), *p*-nitrophenylhydrazine (6 g, 0.04 mol), 1 drop of acetic acid, and ethanol (150 mL) were combined. The slurry was heated at 100 °C for 12 hours with stirring. After it was cooled to room temperature, the yellow solid was filtered and dried to give the title compound (9.12 g 96%) which was pure enough to use in the next step.

MS (DCI/NH<sub>3</sub>) m/e 243 (M+1)<sup>+</sup>;



<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.45 (s, 1H), 8.89 (d, 1H), 8.59 (d, 1H), 8.57-8.52 (m, 1H), 8.16 (d, 2H), 8.08 (s, 1H), 7.78 (dt, 1H), 7.21 (d, 2H).

#### Example 329B

##### 5 N-(4-nitrophenyl)-3-pyridinecarbohydrazonoyl chloride

To a solution of the Example 329A (6 g, 0.025 mol) in DMF (10 mL) at 0 °C was added a solution of N-chlorosuccinimide (3.45 g, 0.026 mol, 1.05 eq) in N, N-dimethylformamide (15 mL) dropwise over 30 minutes. After addition, the resulting dark green mixture was stirred at room temperature for two hours. Then it was poured into ice  
10 water with stirring. The resulting light brown solid was filtered, and dried in a vacuum oven at 40 °C for 12 hours to give the title compound (4.9 g, 71% yield) as an orange solid which was used in the next step without additional purification.

MS (DCI/NH<sub>3</sub>) m/e 277 (M+1)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.91 (s, 1H), 9.17 (d, 1H), 8.68 (dd, 1H), 8.32 (dd, 1H),  
15 8.20 (d, 2H), 7.61-7.53 (m, 3H).

#### Example 329C

##### methyl 1-(4-nitrophenyl)-3-(3-pyridinyl)-1H-pyrazole-5-carboxylate

Example 329B (2.0 g, 7.2 mmol), methyl α-chloroacrylate (1.5 g, 10.8 mmol, 1.5 eq),  
20 toluene (15 mL), and triethylamine (2.5 mL, 18 mmol, 2.5 eq) were combined and heated at 80 °C for 8 hours. After cooling to room temperature, the mixture was diluted with ethyl acetate (30 mL), and washed with 1N HCl (30 mL), and saturated NaCl solution (30 mL). The organic portion was dried over Na<sub>2</sub>SO<sub>4</sub>, filtered, and concentrated in vacuo. This dark brown crude oil was purified by flash chromatography, using ethyl acetate-hexane (v/v, 3:7)  
25 to give the pyrazole (650 mg, 28%) as a brown oil.

MS (DCI/NH<sub>3</sub>) m/e 243 (M+1)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.19 (d, 1H), 8.60 (dd, 1H), 8.39 (d, 2H), 8.33 (dd, 1H),  
7.94 (d, 2H), 7.88 (s, 1H), 7.50 (dd, 1H).

30

#### Example 329D

##### [1-(4-nitrophenyl)-3-(3-pyridinyl)-1H-pyrazol-5-yl]methanol

To a -78 °C solution of Example 329C (650 mg, 2.0 mmol) in THF (30 mL) was added DIBAL (1M soln in hexane, 6.7 mL, 6.7 mmol) dropwise with stirring. After two hours at -78

<sup>0</sup>C, the mixture was warmed to 0 °C and stirred an additional two hours. After it was quenched with potassium sodium tartrate solution (30 mL), the resulting mixture was stirred at room temperature overnight. Then the reaction mixture was diluted with ethyl acetate (20 mL) and washed with brine solution (20 mL). The organic layer was dried over Na<sub>2</sub>SO<sub>4</sub>,  
5 filtered and concentrated vacuo. The crude product was purified by flash chromatography, with ethyl acetate-hexane (v/v, 75:25) to give the alcohol (370 mg, 60%) as an oil.  
MS (DCI/NH<sub>3</sub>) m/e 297 (M+1)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.13 (d, 1H), 8.59 (dd, 1H), 8.42 (d, 2H), 8.29 (dd, 1H), 8.09 (d, 2H), 7.50 (dd, 1H), 7.19 (s, 1H), 5.81 (t, 1H), 4.67 (d, 2H).

10

#### Example 329E

##### 1-(4-nitrophenyl)-3-(3-pyridinyl)-1H-pyrazole-5-carbaldehyde

Under an argon atmosphere, solid tetrapropylammoniumperruthenate (21 mg, 0.06 mmol) was added in one portion to a solution of Example 329D (350 mg, 1.2 mmol) dissolved  
15 in dichloromethane (5 mL) and acetonitrile (0.5 mL). N-methylmorpholine N-oxide (208 mg, 1.8 mmol) was then added followed by flame dried powdered molecular sieves (1 g). The resulting black mixture was stirred at room temperature for 18 hours. The mixture was diluted with 10 mL of dichloromethane and filtered through a short silica gel plug with ethyl acetate-hexane (v/v, 7:3) to afford the aldehyde (180 mg, 53% yield) as an oil.

20 MS (DCI/NH<sub>3</sub>) m/e 295 (M+1)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.93 (s, 1H), 9.19 (d, 1H), 8.63 (dd, 1H), 8.43 (d, 2H), 8.36 (dd, 1H), 8.04 (d, 2H), 7.99 (s, 1H), 7.52 (dd, 1H).

#### Example 329F

##### 3-[5-(1,3-dithiolan-2-yl)-1-(4-nitrophenyl)-1H-pyrazol-3-yl]pyridine

Example 329E (150 mg, 0.51 mmol), a catalytic amount of p-toluenesulfonic acid (3 mg), 1,2-ethanediol (0.04 mL, 0.51 mmol) and toluene (50 mL) were combined and refluxed for 4 hours in a Dean-Stark apparatus. Then the solution was cooled to room temperature. The toluene solution was washed with NaHCO<sub>3</sub> solution (20 mL) and brine (20 mL). The  
30 organic layer was separated, dried with Na<sub>2</sub>SO<sub>4</sub>, filtered and concentrated in vacuo to give the dithiane (135 mg, 72%) as a crude yellow solid which was pure enough to use in the next step.  
MS (DCI/NH<sub>3</sub>) m/e 371 (M+1)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.11 (d, 1H), 8.57 (dd, 1H), 8.43 (d, 2H), 8.27 (dd, 1H), 7.97 (d, 2H), 7.48 (dd, 1H), 7.29 (s, 1H), 6.03 (s, 1H), 3.48-3.36 (m, 2H), 3.10-3.04 (m, 2H).

Example 329G3-[5-(difluoromethyl)-1-(4-nitrophenyl)-1H-pyrazol-3-yl]pyridine

To a cold (0 °C) solution of 1,3-dibromo-5,5-dimethylhydantoin (302 mg, 1.06 mmol) in  
5 anhydrous dichloromethane (5 mL) under argon atmosphere was added HF-pyridine (0.2 mL,  
0.88 mmol), followed by Example 329F (130 mg, 0.35 mmol). The resulting red solution was  
stirred at 0 °C for 45 minutes, then diluted with dichloromethane (10 mL) and quenched with  
NaHCO<sub>3</sub> solution (10 mL). The organic layer was separated and washed with more NaHCO<sub>3</sub>  
solution (10 mL), dried with Na<sub>2</sub>SO<sub>4</sub>, filtered and concentrated in vacuo to give 100 mg of  
10 black crude material. This crude product was purified by HPLC with ethyl acetate-hexane  
(v/v, 6:4) to give the difluoromethane (40 mg, 46%) as an oil.

See Reference: Katzenellenbogen, J.A.; Sondej, S.C. *J. Org. Chem.* **1986**, *51*(18), 3508-3513.  
MS (DCI/NH<sub>3</sub>) m/e 317 (M+1)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.19 (d, 1H), 8.62 (dd, 1H), 8.46 (d, 2H), 8.33 (dt, 1H),  
15 7.96 (d, 2H), 7.65 (s, 1H), 7.52 (dd, 1H), 7.49 (s, 1H).

Example 329H4-[5-(difluoromethyl)-3-(3-pyridinyl)-1H-pyrazol-1-yl]aniline

The title compound was prepared by iron powder and ammonium chloride reduction  
20 as previously described. The product was used in the subsequent step without additional  
purification or characterization.

Example 329N-(4-(5-(difluoromethyl)-3-(3-pyridinyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide

25 Example 329H was processed as in Example (i)-a (Method 5, 6, or 7) to provide the  
title compound.

mp 176-178 °C;

MS (ESI-) m/e 408 (M-1)<sup>-</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.14 (d, 1H), 8.8 (d, 1H), 8.64-8.58 (m, 2H), 8.48 (dd, 1H),  
30 8.29 (dt, 1H), 7.92 (d, 2H), 7.75 (t, 1H), 7.65 (d, 2H), 7.53-7.46 (m, 2H), 3.72 (t, 1H).

Example 330N-(4-(5-cyano-3-(2-pyridinyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide

Example 330AN-(4-nitrophenyl)-2-pyridinecarbohydrazonoyl chloride

This compound was obtained from 2-pyridinecarboxaldehyde 4-nitrophenylhydrazone in 84% yield using the methodology described in the preparation of Example 329A.

5 MS (DCI) m/e 277 (M+1)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.93 (s, 1H), 8.68 (d, 1H), 8.21 (d, 2H), 7.93 (td, 1H), 7.58 (d, 2H), 7.49 (dd, 1H), 7.24 (d, 1H).

Example 330B

10 1-(4-nitrophenyl)-3-(2-pyridinyl)-1H-pyrazole-5-carbonitrile

The title compound was prepared from Example 330A and 2-chloroacrylonitrile in 39% yield using methodology described in the preparation of Example 329.

MS (DCI) m/e 292 (M+1)<sup>+</sup>;

15 <sup>1</sup>H NMR (CDCl<sub>3</sub>, 300 MHz) δ 8.70 (d, 1H), 8.45 (d, 2H), 8.16-8.07 (m, 3H), 7.84 (td, 1H), 7.80 (s, 1H), 7.35 (dd, 1H).

Example 330C1-(4-aminophenyl)-3-(2-pyridinyl)-1H-pyrazole-5-carbonitrile

20 This material was prepared in 34% yield from Example 330B using methodology described in the preparation of Example 329.

MS (DCI) m/e 262 (M+1)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.66 (d, 1H), 8.03 (d, 1H), 7.92 (td, 1H), 7.82 (s, 1H), 7.43-7.36 (m, 3H), 6.61 (d, 2H), 5.68 (s, 2H).

25 Example 330

N-(4-(5-cyano-3-(2-pyridinyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide

Example 330C was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 118-119 °C;

30 MS (DCI/NH<sub>3</sub>) m/e 385 (M+1)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.8 (d, 1H), 8.68 (dt, 1H), 8.63 (dd, 1H), 8.08 (d, 1H), 7.99-7.92 (m, 4H), 7.85 (d, 2H), 7.77 (t, 1H), 7.48-7.42 (m, 1H).

Example 331

35 N-(4-(5-cyano-3-(3-pyridinyl)-1H-pyrazol-1-yl)phenyl)-4-methyl-1,2,3-thiadiazole-5-

carboxamideExample 331A1-(4-nitrophenyl)-3-(3-pyridinyl)-1H-pyrazole-5-carbonitrile

5       The title compound was prepared in 32% yield using the methodology described in the preparation of Example 304 using 2-chloroacrylonitrile and the chlorohydrazone previously described in the preparation of Example 329.

MS (DCI) m/e 292 (M+1)<sup>+</sup>;

10       <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.19-9.16 (m, 1H), 8.66 (d, 1H), 8.51 (d, 2H), 8.37-8.30 (m, 1H), 8.23 (s, 1H), 8.17 (d, 2H), 7.56 (dd, 1H).

Example 331B1-(4-aminophenyl)-3-(3-pyridinyl)-1H-pyrazole-5-carbonitrile

15       The title compound was prepared in 84% yield from the 331A using methodology described in the preparation of Example 304.

MS (DCI) m/e 262 (M+1)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.10 (d, 1H), 8.25 (dt, 1H), 7.95 (s, 1H), 7.50 (dd, 1H), 7.39 (d, 2H), 6.70 (d, 2H), 5.65 (s, 2H).

Example 331N-(4-(5-cyano-3-(3-pyridinyl)-1H-pyrazol-1-yl)phenyl)-4-methyl-1,2,3-thiadiazole-5-carboxamide

20       Example 331B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

25       mp 215-218 °C;

MS (ESI) m/e 386 (M-1)<sup>-</sup>, 388 (M+1)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.15 (d, 1H), 8.63 (dd, 1H), 8.30 (dt, 1H), 8.10 (s, 1H), 7.95 (d, 2H), 7.85 (d, 2H), 7.54 (dd, 1H), 2.80 (s, 3H).

Example 332N-(4-(5-bromo-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamideExample 332A5-bromo-1-(4-nitrophenyl)-3-(trifluoromethyl)-1H-pyrazole

Example 309A-2 (442 mg, 1.62 mmol) and phosphorous tribromide (2.63, 9.17 mmol) were heated at 160 °C for 20 hours. The reaction mixture was cooled and saturated sodium bicarbonate solution (20 mL) was added cautiously over 30 minutes. The mixture was diluted further with bicarbonate solution (100 mL). The aqueous layer was extracted with ethyl acetate (2 x 150 mL). The combined organic layers were dried over sodium sulfate, filtered and concentrated. The crude oil was purified by flash chromatography using 95% hexane/5% ethyl acetate affording the title compound as a dark brown oil (467 mg, 86% yield).

MS (DCI/NH<sub>3</sub>) m/e 325 (M + NH<sub>4</sub>)<sup>+</sup> (for aniline produced in analysis);

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.45 (d, 2H), 7.98 (d, 2H), 7.43 (s, 1H).

#### Example 332B

##### 4-[5-bromo-3-(trifluoromethyl)-1H-pyrazol-1-yl]aniline

The title compound was prepared by iron powder and ammonium chloride reduction as previously described. The product was used in the subsequent step without additional purification or characterization.

MS (DCI/NH<sub>3</sub>) m/e 323 (M + NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.16 (d, 2H), 7.14 (s, 1H), 6.67 (d, 2H), 5.60 (s, 2H).

#### Example 332

##### N-(4-(5-bromo-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide

Example 332B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 143-144 °C;

MS (DCI/NH<sub>3</sub>) m/e 446 (M + NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.03 (s, 1H), 8.80 (s, 1H), 8.63 (d, 1H), 7.92 (d, 2H), 7.76 (t, 1H), 7.64 (d, 2H), 7.33 (s, 1H);

Anal. calcd for C<sub>16</sub>H<sub>9</sub>BrF<sub>4</sub>N<sub>4</sub>O: C, 44.77; H, 2.11; N, 12.95. Found: C, 44.43; H, 2.11; N, 12.95.

#### Example 333

##### 3-fluoro-N-(4-(5-nitro-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide

#### Example 333A

##### tert-butyl 1-[4-(isonicotinoylamino)phenyl]-3-(trifluoromethyl)-1H-pyrazol-5-ylcarbamate

Example 326B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

MS (DCI/NH<sub>3</sub>) m/e 483 (M + NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.95 (s, 1H), 9.46 (s, 1H), 8.79 (s, 1H), 8.62 (d, 1H), 7.87 (d, 2H), 7.74 (t, 1H), 7.54 (d, 2H), 6.80 (s, 1H), 1.33 (s, 9H).

#### Example 333

##### 3-fluoro-N-(4-(5-nitro-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide

A solution of Example 333A (100 mg, 0.215 mmol) in trifluoroacetic acid (2 mL) and methylene chloride (2 mL) was stirred at room temperature for 30 min. The solvent was removed in vacuo and the residue was dissolved in acetonitrile (1 mL). Sodium nitrate (300 mg) and copper sulfate were mixed together in a separate flask with acetonitrile (2 mL) and water (1 mL). The amine solution was added slowly over 5 minutes, then the resulting mixture was allowed to stir for 15 minutes. The reaction mixture was poured into saturated sodium bicarbonate solution (50 mL). The aqueous layer was extracted with ethyl acetate (2 x 50 mL). The combined organic layers were dried over sodium sulfate, filtered and concentrated. The residue was purified by flash chromatography with 50% ethyl acetate/ 50% hexane to obtain the title compound (8 mg, 9% yield).

mp 188-190 °C;

MS (DCI/NH<sub>3</sub>) m/e 413 (M + NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.01 (s, 1H), 8.80 (s, 1H), 8.63 (d, 1H), 8.14 (s, 1H), 7.89 (d, 2H), 7.76 (t, 1H), 7.69 (d, 2H);

Anal. calcd for C<sub>16</sub>H<sub>9</sub>F<sub>4</sub>N<sub>5</sub>O<sub>3</sub>: C, 48.61; H, 2.29; N, 17.71. Found: C, 48.89; H, 2.37; N, 17.38.

#### Example 334

##### 3-fluoro-N-[4-[5-nitro-3-(3-pyridinyl)-1H-pyrazol-1-yl]phenyl]isonicotinamide

#### Example 334A

##### 1-(4-nitrophenyl)-3-(3-pyridinyl)-1H-pyrazol-5-amine

3-Oxo-3-pyridin-3-yl-propionitrile (3.57g, 24.4 mmol)[Chem. Abstr.; 60; 10689d; 1964] and p-nitrophenylhydrazine (3.74g, 24.4 mmol) were dissolved in ethanol (100 mL), treated with 4N HCl in dioxane (61 mL) and refluxed for 2 hours. After cooling to ambient temperature and evaporation to dryness, the residue was partitioned between ethyl acetate and

1N sodium bicarbonate solution. After removal of the aqueous phase, the organic layer was dried over  $\text{MgSO}_4$  and concentrated in vacuo to provide 5.57g (19.8 mmol, 81%) of crude product. Silica gel chromatography of the crude product eluting with hexanes-acetone (4 step gradient from 6:1 to 1:1) provided 3.59g (12.8 mmol, 52.5%) of pure product as an oil.

5 MS (ESI-) m/e 280 (M-H);

$^1\text{H}$  NMR ( $\text{DMSO-d}_6$ , 300 MHz)  $\delta$  9.02 (dd,  $J=0.5$ , 2Hz, 1H), 8.54 (dd,  $J=2.5$ Hz, 1H), 8.37 (dm,  $J=9$ Hz, 2H), 8.17 (dt,  $J=8.2$ Hz, 1H), 8.04 (dm,  $J=9$ Hz, 2H), 7.46 (dd,  $J=5.8$ Hz, 1H), 6.11 (s, 1H), 5.92 (s, 2H).

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#### Example 334B

##### [4-nitro-[3-(3-pyridyl)-5-(bis-Boc-amino)-1H-pyrazol-1-yl]]benzene

Example 334A (0.66g, 2.35 mmol) was dissolved into dioxane (5 mL) and treated with di-*t*-butyldicarbonate (0.62g, 2.82 mmol) and a catalytic amount of 4-

15

(dimethylamino)pyridine at 60 °C for 1 day. Additional di-*t*-butyldicarbonate (0.62g, 2.82 mmol) and 4-(dimethylamino)pyridine were introduced at 60 °C for 3 hours to completely consume the starting material. The solvent was evaporated in vacuo and the residue was purified by chromatography on silica gel (Biotage 40S) eluting with hexanes-acetone (step gradient 9:1 to 2:1) to provide 537 mg (1.41 mmol, 48%) of pure product as the bis-Boc material (some mono-Boc product was sometimes also present and was combined with the bis-Boc product for the subsequent reactions).

20

MS (ESI-) m/e 380 (M-H); MS (ESI+) m/e 482 (M+H)+;

$^1\text{H}$  NMR ( $\text{DMSO-d}_6$ , 300 MHz)  $\delta$  9.14 (d,  $J=2$ Hz, 1H), 8.62 (dd,  $J=2.5$ Hz, 1H), 8.52 (dm,  $J=9$ Hz, 2H), 8.29 (dt,  $J=8.2$ Hz, 1H), 7.78 (dm,  $J=9$ Hz, 2H), 7.53 (dd,  $J=5.8$ Hz, 1H), 7.33 (s, 1H), 1.29 (s, 18H).

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#### Example 334C

##### [4-nitro-[3-(3-pyridyl)-5-(bis-Boc-amino)-1H-pyrazol-1-yl]]benzene

Example 334B (525 mg, 1.11 mmol) was dissolved in ethanol (10 mL) and water (0.5 mL) and reduced with iron and ammonium chloride as described previously to provide 375

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mg (0.83 mmol, 75%) as a mixture of mono and bis-Boc protected product which was used directly in the subsequent amide coupling reactions. MS (ESI+) m/e 352(M+H)+ (mono-Boc); (ESI-) m/e 452(M+H)+ (bis-Boc);

$^1\text{H}$  NMR ( $\text{DMSO-d}_6$ , 300 MHz)  $\delta$  9.04 (d,  $J=2$ Hz, 0.33H), 9.02 (d,  $J=2$ Hz, 0.67H), 8.44 (s, 0.67H), 8.55-8.50 (m, 1H), 8.62-8.14 (m, 1H), 7.47-7.42 (m, 1H), 7.15 (dm,  $J=9$ Hz, 1.33H),



7.06 (dm, J=9Hz, 0.67H), 7.04 (s, 0.33H), 6.82 (s, 0.67H), 6.67-6.62 (m, 2H), 5.43 (s, 0.67H), 5.36 (s, 1.33H), 1.30-1.38 (m, 12H).

#### Example 334D

5     N-[4-[3-(3-pyridyl)-5-(bis-Boc-amino)-1H-pyrazol-1-yl]phenyl]-3-fluoropyridin-4-yl-carboxamide

Example 334C was processed as in Example (i)-a (Method 5, 6, or 7) to provide 530 mg of product as a mixture of mono and bis Boc protected substances.

MS (ESI-) m/e 473(M-H)<sup>+</sup>;

10     <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.23 (s, 0.4H), 9.09 (d, J=2Hz, 0.6H), 9.06 (d, J=2Hz, 0.4H), 8.78 (s, 1H), 8.62 (d, J=5Hz, 1H), 8.58-8.54 (m, 1H), 8.26-8.20 (m, 1H), 7.92-7.84 (m, 2H), 7.76-7.73 (m, 1H), 7.59 (dm, J=9Hz, 0.8H), 7.52-7.44 (m, 2.2H), 7.18 (s, 0.6H), 6.93 (s, 0.4H), 5.98 (s, 0.4H);

15     Example 334E

N-[4-[3-(3-pyridyl)-5-amino-1H-pyrazol-1-yl]phenyl]-3-fluoropyridin-4-yl-carboxamide

Example 334E (530 mg) was treated with 4N HCl in dioxane (20 mL) for 1 hour. The excess reagent and solvent were removed by evaporation in vacuo, and the residue (0.60 g) was used without purification.

20     MS (ESI-) m/e 373(M-H)<sup>+</sup>; 409(M+Cl)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.92 (s, 1H), 9.15 (s, 1H), 8.79 (s, 1H), 8.72 (d, J=6Hz, 1H), 8.67-8.62 (m, 2H), 7.89-7.85 (m, 2H), 7.74 (t, J=5Hz, 1H), 7.66 (dm, J=9Hz, 2H), 6.14 (s, 1H);

25     Example 334

3-fluoro-N-[4-[5-nitro-3-(3-pyridinyl)-1H-pyrazol-1-yl]phenyl]isonicotinamide

Example 334E (54 mg, 0.14 mmol) in 10% H<sub>2</sub>SO<sub>4</sub> (1 mL) was added dropwise to NaNO<sub>2</sub> (400 mg) in water (2 mL) at 50 °C. The outgassing of the reaction stopped after approximately 15 minutes. The reaction was cooled to ambient temperature and diluted with  
30     1N NaHCO<sub>3</sub> solution. The product was extracted into ethyl acetate, the ethyl acetate layer was washed with water (2x) and dried over MgSO<sub>4</sub>. After evaporation of the solvent, the residue was purified by chromatography on silica gel (2g Alltech Extract-Clean™ silica) by elution with hexanes-ethyl acetate (1:2) to provide 17 mg (0.042 mmol, 30%) of the title compound as an off-white solid.

mp 213-215 °C;  
MS (ESI-) m/e 403(M-H)<sup>-</sup>; 439(M+Cl)<sup>-</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.02 (s, 1H) 9.19 (d, 1H, J=2 Hz), 8.82 (s, 1H), 8.62-8.66 (m, 2H), 8.35 (dt, 1H, J=8,2 Hz), 8.22 (s, 1H), 7.89 (d, 2H, J=9 Hz), 7.77 (t, 1H, J=5 Hz), 7.69 (d, 2H, J=9 Hz), 7.53 (dd, 1H, J=5,8 Hz).

#### Example 335

##### N-(4-(5-bromo-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-4-methyl-1,2,3-thiadiazole-5-

Example 332B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the  
title compound.  
mp 145-147 °C;  
MS (DCI/NH<sub>3</sub>) m/e 451 (M + NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.02 (s, 1H), 7.90 (d, 2H), 7.64 (d, 2H), 7.32 (s, 1H), 2.84 (s, 3H);  
Anal. calcd for C<sub>14</sub>H<sub>9</sub>BrF<sub>3</sub>N<sub>5</sub>OS: C, 48.61; H, 2.29; N, 17.71. Found: C, 48.89; H, 2.37; N, 17.38.

##### Example 336 N-{4-[5-chloro-3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl}-3-fluoroisonicotinamide

#### Example 336A

##### 1-(4-nitrophenyl)-3-(trifluoromethyl)-1H-pyrazol-5-amine

To a cold (0 °C) mixture of 2,2,2-trifluoro-N-(4-nitrophenyl)ethanehydrazonoyl chloride (161 mg, 0.60 mmol) and 5-aminotetrazole (51 mg, 0.60 mmol) in ethanol was added triethylamine (0.180 mL, 1.27 mmol). The resulting mixture was stirred at room temperature for one hour then heated to reflux for 4 hours. The reaction mixture was cooled and poured into saturated sodium bicarbonate solution (50 mL) and then extracted with ethyl acetate (3 x 50 mL). The combined organic layers were dried over sodium sulfate, filtered and concentrated. The crude residue was purified using flash chromatography with 50% ethyl acetate / 50% hexane to afford the title compound as an oil (95 mg, 58% yield).

MS (DCI/NH<sub>3</sub>) m/e 274 (M+1)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.41 (d, 2H), 7.91 (d, 2H), 7.32 (s, 2H).

#### Example 336B

4-[5-chloro-3-(trifluoromethyl)-1H-pyrazol-1-yl]aniline

A solution of Example 336A (90 mg, 0.329 mmol) in acetonitrile (1 mL) was added to a cold solution (0 °C) of copper chloride (66 mg, 0.49 mmol) and t-butyl nitrite (0.058 mL, 0.49 mmol) in acetonitrile (2 mL). The resulting mixture was stirred for 30 minutes, then poured into brine (50 mL). The aqueous layer was extracted with ethyl acetate (3 x 50 mL). The combined organic layers were dried over sodium sulfate, filtered and concentrated. The crude residue was purified by flash chromatography with 10% ethyl acetate/ 90% hexane to afford the chlorotriazole as an oil (70 mg, 73% yield). MS (DCI/NH<sub>3</sub>) m/e 280 (M+NH<sub>4</sub>)<sup>+</sup> (For aniline produced by the analysis.); <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.50 (d, 2H), 8.07 (d, 2H). This nitro compound was subjected to the usual iron reduction conditions and used without purification in the next step. TLC analysis indicated that the reaction was complete.

Example 336N-{4-[5-chloro-3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl}-3-fluoroisonicotinamide

mp 167-170 °C;  
MS (DCI/NH<sub>3</sub>) m/e 386 (M + H)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.08 (s, 1H), 8.80 (s, 1H), 8.63 (d, 1H), 7.95 (d, 2H), 7.76 (d, 2H), 7.75 (s, 1H).

N-(4-(5-chloro-3-(trifluoromethyl)-1H-1,2,4-triazol-1-yl)phenyl)-3-fluoroisonicotinamide

Example 325B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.  
mp 167-170 °C;  
MS (DCI/NH<sub>3</sub>) m/e 386 (M + H)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.08 (s, 1H), 8.80 (s, 1H), 8.63 (d, 1H), 7.95 (d, 2H), 7.76 (d, 2H), 7.75 (s, 1H).

Example 3374-methyl-N-(4-(5-nitro-3-(3-pyridinyl)-1H-pyrazol-1-yl)phenyl)-1,2,3-thiadiazole-5-Example 337A

tert-butyl 1-(4-([(4-methyl-1,2,3-thiadiazol-5-yl)carbonyl]amino)phenyl)-3-(3-pyridinyl)-1H-pyrazol-5-ylcarbamate

The aniline used to prepare Example 334 (510 mg, 1.45 mmol) was processed as in Example (i)-a (Method 5, 6, or 7) to provide 580 mg (1.21 mmol, 84%) of product that was used directly in the next step.

MS (ESI-) m/e 476(M-H)<sup>+</sup> (mono-Boc); 576(M-H)<sup>+</sup> (bis-Boc);

- 5 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.96 (s, 0.4H), 10.93 (s, 0.6H), 9.97 (s, 0.6H), 9.10 (d, J=2Hz, 0.4H), 9.06(d, J=2Hz, 0.6H), 8.61-8.54 (m, 1.4H), 8.26-8.20 (m, 1H), 7.88 (d, J=9Hz, 0.8H), 7.83 (d, J=9Hz, 1.2H), 7.59 (d, J=9Hz, 1.2H), 7.52-7.45 (m, 1.4H), 7.42-7.37 (m, 0.4H), 7.18 (s, 0.4H), 6.93 (s, 0.6H), 2.83 (s, 3H).

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#### Example 337B

N-[4-[5-amino-3-(3-pyridinyl)-1H-pyrazol-1-yl]phenyl]-4-methyl-1,2,3-thiadiazole-5-carboxamide

Example 337A (580 mg, 1.21 mmol) was treated with 4N HCl in dioxane (20 mL) for 1 hour. The excess reagent and solvent were evaporated in vacuo to provide 0.71 mg of solid.

- 15 The solid was partitioned between ethyl acetate and 1N sodium bicarbonate solution, and the organic layer was further washed with water (2x) and dried over MgSO<sub>4</sub> to provide 363 mg (0.96 mmol, 79%) of product.

MS (ESI+) m/e 378(M+H)<sup>+</sup>;

- 20 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.91 (s, 1H), 8.96 (d, J=2Hz, 1H), 8.51 (d, J=5Hz, 1H), 8.12 (d, J=8Hz, 1H), 7.83 (d, J=9Hz, 2H), 7.67 (d, J=9Hz, 2H), 7.42 (dd, J=5,8Hz, 1H), 6.00 (s, 1H), 5.54 (s, 2H), 2.83 (s, 3H).

#### Example 337

N-[4-[3-(3-pyridyl)-5-nitro-1H-pyrazol-1-yl]phenyl]-4-methylthiadiazol-5-yl-carboxamide

- 25 Example 337B (145 mg, 0.38 mmol) was dissolved in 10% H<sub>2</sub>SO<sub>4</sub> (1.5 mL) and added in portions over 1 minute to sodium nitrite (548 mg, 7.9 mmol) in 5.5 mL water. The mixture was allowed to react with vigorous stirring for 5 minutes at 60 °C. The reaction was quenched by the addition of 1N sodium bicarbonate solution, and the product was extracted into ethyl acetate followed by concentration in vacuo. Additional purification was achieved
- 30 chromatographically with an Alltech Extract-Clean™ cartridge eluting with ethyl acetate to provide 30 mg (0.073 mmol, 19%) of the title compound.

mp 208-210 °C;

MS (ESI-) m/e 406(M-H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.18 (d, 1H, J=2 Hz), 8.63 (dd, 1H, J=2,5 Hz), 8.33 (dt, 1H, J=8,2 Hz), 8.20 (s, 1H), 7.87 (d, 2H, J=9 Hz), 7.69 (d, 2H, J=9 Hz), 7.53 (dd, 1H, J=5,8 Hz), 2.86 (s, 3H).

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Example 338

N-(4-(5-cyano-3-(1,3-thiazol-2-yl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide

Example 338A

1,3-thiazole-2-carbaldehyde N-(4-nitrophenyl)hydrazone

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The hydrazone was prepared from 4-nitrophenylhydrazine and 2-thiazolecarboxaldehyde in 88% yield using the methodology described in the preparation of Example 300A.

MS (DCI) m/e 249 (M+1)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.21 (s, 1H), 8.09 (d, 2H), 7.88 (d, 1H), 7.69 (d, 1H), 7.09 (d, 2H).

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Example 338B

N-(4-nitrophenyl)-1,3-thiazole-2-carbohydrazonoyl chloride

The chlorohydrazone was prepared in 88% yield from the hydrazone prepared above using methodology described in the preparation of Example 300B.

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MS (DCI) m/e 283 (M+1)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.10 (s, 1H), 8.24 (d, 2H), 7.96 (d, 1H), 7.92 (d, 1H), 7.48 (d, 2H).

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Example 338C

1-(4-nitrophenyl)-3-(1,3-thiazol-2-yl)-1H-pyrazole-5-carbonitrile

The title compound was prepared in 15% yield using the chlorohydrazone prepared above and the reagents and methodology described in the preparation of Example 300C.

MS (DCI) m/e 298 (M+1)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.51 (d, 2H), 8.15 (d, 2H), 8.09 (s, 1H), 8.04 (d, 1H), 7.97 (d, 1H).

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Example 338D

1-(4-aminophenyl)-3-(1,3-thiazol-2-yl)-1H-pyrazole-5-carbonitrile

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The compound was prepared in 36% yield from the nitrophenyl compound prepared above using the methodology described in the preparation of Example 300D.

MS (ESI) m/e 268 (M+1)<sup>+</sup>, 266 (M-1)<sup>-</sup>.

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.97 (d, 1H), 7.83 (d, 1H), 7.81 (s, 1H), 7.38 (d, 2H), 6.70 (d, 2H), 5.68 (s, 2H).

Example 338

5     N-(4-(5-cyano-3-(1,3-thiazol-2-yl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide

Example 338D was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 210-211 °C;

MS (ESI) m/e 389 (M-1)<sup>+</sup>, 391 (M+1)<sup>+</sup>;

10     <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.04 (s, 1H), 8.80 (d, 1H), 8.63 (dd, 1H), 8.00 (d, 1H), 7.97 (d, 2H), 7.89 (d, 1H), 7.84 (d, 2H), 7.76 (t, 1H).

Example 339

15     N-(4-(3-(5-bromo-3-pyridinyl)-5-(difluoromethoxy)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide

Example 339A

3-(5-bromo-3-pyridinyl)-1-(4-nitrophenyl)-1H-pyrazol-5-ol

20     Condensation of methyl 5-bromonicotinoylacetate and p-nitrophenylhydrazine using methodology previously described gave the title compound in quantitative yield.

MS (APCI) m/e 361 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.1 (d, 1H), 8.73 (d, 1H), 8.52 (t, 1H), 8.38 (d, 2H), 8.22 (d, 2H), 6.33 (s, 1H).

25

Example 339B

3-bromo-5-[5-(difluoromethoxy)-1-(4-nitrophenyl)-1H-pyrazol-3-yl]pyridine

This intermediate was prepared by alkylation of Example 339A in 81% yield using the procedure described in the preparation of Example 322A.

30     MS (DCI/NH<sub>3</sub>) m/e 430 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.4 (d, 1H), 8.75 (d, 1H), 8.57 (t, 1H), 8.44 (d, 2H), 8.07 (d, 2H), 7.66-7.18 (t, 1H), 7.14 (s, 1H).

Example 339C

4-[3-(5-bromo-3-pyridinyl)-5-(difluoromethoxy)-1H-pyrazol-1-yl]phenylamine

This intermediate was prepared by reduction of the above compound with iron powder in 82% yield as described in the preparation of Example 322B.

MS (DCI/NH<sub>3</sub>) m/e 400 (M+NH<sub>4</sub>)<sup>+</sup>;

5 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 9.04 (d, 1H), 8.67 (d, 1H), 8.45 (t, 1H), 7.54-7.06 (t, 1H), 7.22 (d, 2H), 6.93 (s, 1H), 6.65 (d, 2H), 5.47 (s, 2H).

Example 339N-(4-(3-(5-bromo-3-pyridinyl)-5-(difluoromethoxy)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide

10

Example 339C was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 179-180 °C;

MS (DCI/NH<sub>3</sub>) m/e 506 (M+H)<sup>+</sup>;

15 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.94 (s, 1H), 9.1 (d, 1H), 8.8 (s, 1H), 8.72 (d, 1H), 8.62 (d, 1H), 8.51 (t, 1H), 7.9 (d, 2H), 7.74 (t, 1H), 7.71 (d, 2H), 7.13-7.61 (t, 1H), 7.05 (s, 1H).

Example 340N-(4-(5-cyano-3-(1,3-thiazol-2-yl)-1H-pyrazol-1-yl)phenyl)-4-methyl-1,2,3-thiadiazole-5-carboxamide

20

Example 338D was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 230°C;

MS (ESI-) m/e 392 (M-1)<sup>+</sup>;

25 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.10 (d, 1H), 7.96 (d, 2H), 7.97 (s, 1H), 7.89 (d, 1H), 7.85 (d, 2H), 2.86 (d, 3H).

Example 341N-(4-(5-cyano-3-(1,3-thiazol-2-yl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide

30

Example 338D was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 162-163 °C;

MS (DCI/NH<sub>3</sub>) m/e 434 (M+1)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.06 (s, 1H), 8.80 (d, 1H), 8.63 (dd, 1H), 8.00 (d, 1H), 7.93 (d, 2H), 7.87 (d, 1H), 7.78 (t, 1H), 7.66 (d, 2H), 7.62 (s, 1H);  
IR (KBr) cm<sup>-1</sup> 3277, 3102, 1653, 1604, 1541, 1516, 1416, 1389, 1325, 1295, 1247, 1168, 1125, 990, 934, 844, 726.

5

Example 342

4-methyl-N-(4-(3-(1,3-thiazol-2-yl)-5-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-1,2,3-thiadiazole-5-carboxamide

10

Example 342A

4,4,4-trifluoro-1-(1,3-thiazol-2-yl)-1,3-butanedione, sodium salt

To a slurry of sodium methoxide (5.2 g, 96 mmol) in ethyl ether (250 mL) under nitrogen was added methyl trifluoroacetate (9.66 mL, 96 mmol) slowly with stirring. The resulting white slurry was stirred at room temperature for 30 minutes. It was cooled to 0 °C and 2-acetylthiazole (8.28 mL, 80 mmol) was added dropwise to the mixture. This slurry became a clear solution upon addition of 2-acetylthiazole. Then the mixture was heated to reflux for 1 hour. This resulting reddish slurry was cooled to room temperature and ethyl ether was removed in vacuo to give the diketone product (17.80g, quantitative) as an off white solid. This crude product was not further purified before the next step.

MS (ESI) m/e 222 (M-1);

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.88 (d, 1H), 7.84 (d, 1H), 6.39 (s, 1H).

Example 342B

2-[5-(trifluoromethyl)-1H-pyrazol-3-yl]-1,3-thiazole

Example 342A (4.8 g, 22 mmol), anhydrous hydrazine (1.28 mL, 26.4 mmol), and dry toluene (100 mL) were combined and heated to reflux for 3 hours. The reaction mixture was cooled to room temperature and the toluene was removed in vacuo. This crude material was purified by flash chromatography, eluting with ethyl acetate-hexanes (v/v, 3:7) to give the desired pyrazole product (1.8 g, 38%).

MS (DCI/NH<sub>3</sub>) m/e 220 (M+1)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.52 (s, 1H), 8.02 (d, 1H), 7.49 (d, 1H), 7.25 (s, 1H), 6.98 (s, 1H).

Example 342C



2-[1-(4-nitrophenyl)-5-(trifluoromethyl)-1H-pyrazol-3-yl]-1,3-thiazole

To a cooled (0 °C) slurry of sodium hydride (95%, 432 mg, 17 mmol) and dry DMF (20 mL) was added dropwise Example 342B (3.4 g, 16 mmol) in dry DMF (5 mL). The resulting mixture was stirred for 10 minutes, 4-fluoronitrobenzene (1.80 mL, 17 mmol) was also added dropwise to the reaction mixture at 0 °C. After addition, the mixture was heated to reflux for 3 hours. After the reaction was complete, the reaction mixture was cooled to room temperature, partitioned between 30 mL of ethyl acetate (30 mL) and water (20 mL). The organic layer was separated, dried with Na<sub>2</sub>SO<sub>4</sub>, filtered and concentrated in vacuo to give a mixture of regioisomers (5 g, 91%, 2:1 mixture of regioisomers). This crude material was not purified before next iron reduction step.

MS (ESI) m/e 341 (M+1)<sup>+</sup>;  
Compound 1: <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.36 (d, 2H), 7.97 (d, 1H), 7.91 (d, 1H), 7.82 (d, 2H), 7.66 (s, 1H);  
Compound 2: <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.47 (d, 2H), 8.02 (d, 1H), 7.95 (d, 2H), 7.89 (d, 1H), 7.73 (s, 1H).

Example 342D

4-[3-(1,3-thiazol-2-yl)-5-(trifluoromethyl)-1H-pyrazol-1-yl]aniline

Iron powder (5.75 g, 103 mmol), ammonium chloride (595 mg, 12 mmol), Example 342C (isomeric mixture from previous step, 5g, 15 mmol) and ethanol-H<sub>2</sub>O (4:1, 50 mL) were combined. This resulting black mixture was heated to reflux for 8 hours. The reaction mixture was cooled to room temperature, passed through a diatomaceous earth pad and a silica gel plug, eluting with ethyl alcohol. After the desired fractions were combined and concentrated in vacuo, the residue was diluted with dichloromethane (20 mL) and washed with NaHCO<sub>3</sub> (20 mL X 2). The organic portion was dried with Na<sub>2</sub>SO<sub>4</sub>, filtered and concentrated in vacuo. This brown crude product was purified by flash chromatography, eluting with ethyl acetate-hexanes (v/v, 2:8) to give the desired product as a pale white solid (1.5 g, 33% yield).

MS (ESI) m/e 311 (M+1)<sup>+</sup>, 309 (M-1)<sup>-</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.97 (d, 1H), 7.82 (d, 1H), 7.49 (s, 1H), 7.19 (d, 2H), 6.65 (d, 2H), 5.65 (s, 2H).

Example 342

4-methyl-N-(4-(3-(1,3-thiazol-2-yl)-5-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-1,2,3-thiadiazole-5-carboxamide

Example 342D was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

5 mp 162-163 °C;

MS (ESI) m/e 437 (M+1)<sup>+</sup>, 435 (M-1)<sup>-</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.04 (s, 1H), 8.00 (d, 1H), 7.92 (d, 2H), 7.86 (d, 1H), 7.65 (d, 2H), 7.62 (s, 1H), 2.86 (s, 3H).

10

Example 343

N-(4-(3-(2,4-dimethyl-1,3-thiazol-5-yl)-5-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide

Example 343A

15

4-[3-(2,4-dimethyl-1,3-thiazol-5-yl)-5-(trifluoromethyl)-1H-pyrazol-1-yl]aniline

A mixture of sodium methoxide (2.10 g, 38.65 mmol), methyl trifluoroacetate (3.90 mL, 38.65 mmol) and 5-acetyl-2,4-dimethylthiazole (5.0 g, 32.2 mmol) in ether (150 mL) was heated at reflux for 16 hours. The reaction mixture was cooled and ether was removed in vacuo. Ethanol (100 mL), 4-nitrophenylhydrazine (4.92 g, 32.2 mmol) and concentrated HCl (10 mL) were added and the resulting mixture was heated to reflux for 16 hours. The reaction mixture was cooled and iron powder (12.5 g, 225 mmol) was added and the mixture was heated at reflux for 2 hours. The reaction mixture was cooled and poured in saturated sodium bicarbonate solution (200 mL). The aqueous layer was extracted with ethyl acetate (3 x 150 mL). The combined organic extracts were dried over sodium sulfate, filtered and concentrated. The residue was purified three times by flash chromatography using 15% isopropanol/ 85% hexane to afford (150 mg, 1.4% yield) the desired product. <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.28 (s, 1H), 7.14 (d, 2H), 6.64 (d, 2H), 5.60 (s, 2H), 2.61 (s, 3H), 2.51 (s, 3H).

30

Example 343

N-(4-(3-(2,4-dimethyl-1,3-thiazol-5-yl)-5-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide

Example 342D was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 194-195 °C;

MS (DCI/NH<sub>3</sub>) m/e 462 (M + H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.01 (s, 1H), 8.80 (s, 1H), 8.62 (d, 1H), 7.91 (d, 2H), 7.75 (t, 1H), 7.60 (d, 2H), 7.41 (s, 1H), 2.63 (s, 3H), 2.51 (s, 3H).

5

Example 344

3-fluoro-N-(4-(5-(1-methyl-1H-pyrrol-3-yl)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide

10

Example 344A

4-[5-(1-methyl-1H-pyrrol-3-yl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]phenylamine

3-Acetyl-1-methyl pyrrole (5 g, 40.65 mmol), sodium methoxide (2.6 g, 48.15 mmol) and methyl trifluoroacetate (4.9 mL, 48.15 mmol) were combined with diethyl ether (200 mL). The mixture was heated to reflux for 2 hours. After cooling to room temperature, solvent was removed. Hydrazine monohydrate (2.16 mL, 44.58 mmol) and toluene (150 mL) were added, and the reaction mixture was heated to reflux for 16 hours. Upon cooling to room temperature, solvent was once again removed. The crude material was dissolved in dimethylformamide (100 mL) and cooled to 0 °C. This solution was added dropwise to a mixture of sodium hydride (60% in mineral oil, 1.79g, 44.72 mmol) in dimethylformamide (30 mL). After stirring at 0 °C for 30 minutes, 1-fluoro-4-nitrobenzene (4.3 mL, 40.65 mmol) was added. The resulting mixture was warmed to 90 °C for 16 hours. After cooling to 0 °C, the reaction was quenched with water (5 mL). The quenched mixture was partitioned between ethyl acetate (100 mL) and water (100 mL). The aqueous layer was back extracted with ethyl acetate (2 x 100 mL). The organic layers were combined, washed with brine (2 x 100 mL), dried over magnesium sulfate and concentrated to dryness. Iron powder (15.6 g, 0.28 mol), ammonium chloride (2.26 g, 40.65 mmol) and a mixture of ethanol/water (200 mL, 3:1 v:v) were added to the crude intermediate. The mixture was heated to reflux for 1 hour. After cooling to ambient temperature, the reaction mixture was passed through a pad of diatomaceous earth (20 g). The filtrate was concentrated to dryness. The crude product was purified by silica gel chromatography eluting with 40% acetone in hexanes (v:v). Fractions containing the desired product were combined and freed of solvent (2.11 g, 17 % yield). MS (DCI/NH<sub>3</sub>) m/e 307 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.01 (d, 2H), 7.95 (s, 1H), 6.72 (t, 1H), 6.60 (d, 2H), 6.37 (t, 1H), 5.85 (m, 1H), 5.53 (s, 2H), 3.53 (s, 3H)

Example 3443-fluoro-N-(4-(5-(1-methyl-1H-pyrrol-3-yl)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide

5        Example 344A was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 171-173 °C;

MS (DCI/NH<sub>3</sub>) m/e 430 (M+H)<sup>+</sup>;

1H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.80 (d, 1H), 8.60 (dd, 1H), 7.85 (d, 2H), 7.45 (d, 2H),  
10    7.22 (s, 1H), 6.91 (s, 1H), 6.75 (m, 1H), 6.70 (t, 1H), 5.80 (m, 1H), 3.55 (s, 3H).

Example 3453-fluoro-N-(4-(3-tetrahydro-2-furanyl-5-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide

15

Example 345A3-(2-furyl)-5-(trifluoromethyl)-1H-pyrazole

4,4,4-Trifluoro-1-(2-furyl)-1,3-butanedione (0.9 g, 4.39 mmol) and hydrazine  
20    monohydrate (0.19 mL, 4.82 mmol) were combined in toluene (10 mL) and refluxed overnight. After cooling to room temperature, solvent was removed in vacuo. The product (0.77 g, 87 % crude yield) was used without further purification.

1H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.85 (m, 1H), 7.00 (s, 1H), 6.95 (d, 1H), 6.67 (m, 1H).

25

Example 345B3-(2-furyl)-1-(4-nitrophenyl)-5-(trifluoromethyl)-1H-pyrazole

To a mixture of sodium hydride (60% in mineral oil, 0.193 g, 4.83 mmol) and dimethylformamide (10 mL) under nitrogen at 0 °C was added dropwise the Example 345A (0.89 g, 4.41 mmol) dissolved in dimethylformamide (5 mL) over a period of 10 minutes.  
30    Then 1-fluoro-4-nitrobenzene (0.47 mL, 4.43 mmol) was added dropwise, and the resulting mixture was heated to 100 °C for 3 hours. The reaction mixture was cooled and partitioned between water (20 mL) and ethyl acetate (30 mL). The aqueous layer was further washed with ethyl acetate (2x20 mL). The organic washes were combined and dried over MgSO<sub>4</sub>. Solvent was removed, and the crude product was loaded onto a filter cake (70 mL silica gel

and 10 g anhydrous magnesium sulfate), and the product eluted with 50% acetone in hexanes (v:v). Fractions containing the desired product and the regioisomer were combined and concentrated in vacuo. The two isomers were separated by HPLC (silica gel, YMC) eluting with 10% ethyl acetate in hexanes. The regioisomers were present in a 1:2 ratio with the  
5 desired material being the minor constituent. Overall yield: 0.35 g (26%) of the desired product.

MS (DCI/NH<sub>3</sub>) m/e 324 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.45 (d, 2H), 7.92 (d, 2H), 7.83 (m, 1H), 7.62 (s, 1H), 7.05  
10 (m, 1H), 6.67 (m, 1H).

#### Example 345C

##### (±) 4-[3-tetrahydro-2-furanyl-5-(trifluoromethyl)-1H-pyrazol-1-yl]phenylamine

A solution of the above compound and 10% palladium on carbon in methanol containing one drop of concentrated hydrochloric acid was hydrogenated at 4 atm at room  
15 temperature for 18 hours, filtered through a short silica gel plug, and concentrated to provide the desired compound.

MS (DCI/NH<sub>3</sub>) m/e 298 (M+H)<sup>+</sup>.

#### Example 345D

##### 3-fluoro-N-(4-(3-tetrahydro-2-furanyl-5-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide

Example 345C was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 116-118 °C;

25 MS (DCI/NH<sub>3</sub>) m/e 421 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.00 (s, 1H), 8.80 (d, 1H), 8.62 (dd, 1H), 7.9 (d, 2H), 7.85 (t, 1H), 7.52 (d, 2H), 7.10 (s, 1H), 4.95-4.90 (m, 1H), 3.97-3.89 (m, 1H), 3.81-3.73 (m, 1H), 2.30-2.21 (m, 1H), 2.27-1.90 (m, 3H).

#### Example 346

##### 3-chloro-N-(4-(5-chloro-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide

Example 325B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound using 3-chloroisonicotinic acid prepared as described in the reference below.

Reference: Lecomte, L.; Ndzi, B.; Queguiner, G.; Turck, A. FR. 2,686,340-A1.

35 mp 184-185 °C;

MS (DCI/NH<sub>3</sub>) m/e 418 (M + NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.06 (s, 1H), 8.83 (s, 1H), 8.71 (d, 1H), 7.92 (d, 2H), 7.73 (d, 1H), 7.66 (d, 2H), 7.32 (s, 1H).

5

Example 347

N-(4-(5-chloro-3-(1,3-thiazol-2-yl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide

Example 347A

methyl 3-oxo-3-(1,3-thiazol-2-yl)propanoate

10 To a cold solution (-78 °C) of diisopropylamine (7.5 mL, 51.82 mmol) in diethyl ether (200 mL) was added n-BuLi (2.5 M in hexane, 18.0 mL, 45 mmol). The resulting solution was stirred at -78 °C for 30 minutes at which point neat 2-acetylthiazole (5.07 g, 39.87 mmol) was added. The resulting solution was stirred for one hour at -78 °C and neat methyl  
15 cyanoformate (4.7 mL, 59.81 mmol) was added and the resulting mixture was stirred at -78 °C for 3 hours. The reaction mixture was then warmed to room temperature over a period of one hour. The reaction was quenched by the addition of water (150 mL). The layers were separated. The aqueous layer was acidified to pH 1, then extracted with ether (150 mL). The organic layer was dried over sodium sulfate, filtered and concentrated to give the title compound as an oil (7.37 g, 99% yield).

20 MS (DCI/NH<sub>3</sub>) m/e 186 (M + H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.29 (d, 1H), 8.18 (d, 1H), 4.21 (s, 2H).

Example 347B

1-(4-nitrophenyl)-3-(1,3-thiazol-2-yl)-1H-pyrazol-5-ol

25 A mixture of Example 347A (7.32 g, 39.6 mmol), 4-nitrophenylhydrazine (6.65 g, 43.5 mmol), concentrated HCl (15 mL) and water (15 mL) in dioxane (200 mL) was heated at reflux for 4 hours. The reaction mixture was cooled to room temperature and approximately 75% of the solvent was removed in vacuo. The reaction mixture was diluted with brine (200 mL) and the aqueous mixture was extracted with ethyl acetate (2 x 200 mL). The combined  
30 organic layers were dried over sodium sulfate, filtered and concentrated to a crude orange solid (7.32 g, 64% yield) which was pure enough for the next step.

MS (DCI/NH<sub>3</sub>) m/e 306 (M + NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.40 (d, 2H), 8.17 (d, 2H), 7.92 (d, 1H), 7.79 (d, 1H), 6.10 (s, 1H).

#### Example 347C

5                    2-[5-chloro-1-(4-nitrophenyl)-1H-pyrazol-3-yl]-1,3-thiazole

A mixture of the Example 347B (938 mg, 3.25 mmol) and phenylphosphinic dichloride (5.0 mL, 35.3 mmol) was heated at 150 °C for 24 hours. The reaction mixture was cooled and poured slowly into saturated sodium bicarbonate solution (150 mL). The aqueous layer was extracted with ether (3 x 150 mL). The combined organic layers were dried over sodium  
10                    sulfate, filtered and concentrated. The crude residue was purified by flash chromatography with 90% hexane/ 10% ethyl acetate affording the title compound as a yellow oil (215 mg, 22% yield).

MS (DCI/NH<sub>3</sub>) m/e 307 (M + H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.46 (d, 2H), 8.04 (d, 2H), 7.99 (d, 1H), 7.86 (d, 1H), 7.29  
15                    (s, 1H).

#### Example 347D

4-[5-chloro-3-(1,3-thiazol-2-yl)-1H-pyrazol-1-yl]phenylamine

The nitro group of Example 347C was reduced with iron as described previously.

20                    MS (DCI/NH<sub>3</sub>) m/e 277 (M + H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.92 (d, 1H), 7.78 (d, 1H), 7.21 (d, 2H), 7.06 (s, 1H), 6.68 (d, 2H), 5.58 (s, 2H).

#### Example 347

25                    N-(4-(5-chloro-3-(1,3-thiazol-2-yl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide

Example 347D was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 194-195 °C;

MS (DCI/NH<sub>3</sub>) m/e 400 (M + H)<sup>+</sup>;

30                    <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.98 (s, 1H), 8.79 (s, 1H), 8.63 (d, 1H), 7.95 (d, 1H), 7.93 (d, 2H), 7.81 (d, 1H), 7.75 (t, 1H), 7.68 (d, 2H), 7.17 (s, 1H);

Anal. calcd for C<sub>18</sub>H<sub>11</sub>ClFN<sub>5</sub>OS: C, 54.07; H, 2.77; N, 17.51. Found: C, 53.90; H, 3.05; N, 17.00.

Example 348N-(4-(5-bromo-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2,3-difluorobenzamide

Example 332B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

5 mp 109-112 °C;

MS (DCI/NH<sub>3</sub>) m/e 446 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.91 (d, 2H), 7.70-7.60 (m, 1H), 7.61 (d, 2H), 7.58-7.51 (m, 1H), 7.41-7.33 (m, 1H), 7.30 (s, 1H);

Anal. calcd for C<sub>17</sub>H<sub>8</sub>F<sub>3</sub>N<sub>3</sub>OBr: C, 45.30; H, 2.12; N, 9.32. Found: C, 45.09; H, 2.3; N, 9.07.

10

Example 349N-(4-(5-bromo-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-3-chloroisonicotinamide

Example 332B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

15 mp 79-82 °C;

MS (DCI/NH<sub>3</sub>) m/e 445 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.81 (s, 1H), 8.70 (d, 1H), 7.90 (d, 2H), 7.72 (d, 1H), 7.62 (d, 2H, J=9 Hz), 7.30 (s, 1H).

20

Example 3502-chloro-N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)benzamide

Example 300D was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 162-163 °C;

25 MS (ESI) m/e 391 (M+1)<sup>+</sup>, 389 (M-1)<sup>-</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.91 (s, 1H), 8.09 (s, 1H), 7.98 (d, 2H), 7.79 (d, 2H), 7.67-7.46 (m, 4H);

IR (KBr) cm<sup>-1</sup> 3279, 3144, 2241, 1659, 1606, 1516, 1474, 1413, 1377, 1325, 1238, 1200, 1152, 1099, 972, 827, 751.

30

Example 3513-chloro-N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide

Example 300D was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.



mp 221-222 °C;

MS (ESI-) m/e 374 (M-1);

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.06 (s, 1H), 8.8 (d, 1H), 8.63 (dd, 1H), 8.08 (s, 1H), 7.97 (d, 2H), 7.82 (d, 2H), 7.76 (t, 1H);

5 IR (KBr) cm<sup>-1</sup> 3188, 3132, 3046, 2244, 1694, 1609, 1557, 1513, 1475, 1417, 1326, 1242, 1153, 1129, 1101, 972, 843.

#### Example 352

##### N-(4-(5-(difluoromethoxy)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluorobenzamide

10 Example 322B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 130-131 °C;

MS (DCI/NH<sub>3</sub>) m/e 433 (M+NH<sub>4</sub>)<sup>+</sup>;

15 <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.7 (s, 1H), 7.92 (d, 2H), 7.7 (t, 1H), 7.61 (d, 2H), 7.6 (m, 1H), 7.32-7.41 (m, 2H), 7.15-7.65 (t, 1H), 6.82 (s, 1H).

#### Example 353

##### 2-chloro-N-(4-(5-(difluoromethoxy)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)benzamide

20 Example 322B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 122-123 °C;

MS (DCI/NH<sub>3</sub>) m/e 449 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.82 (s, 1H), 7.92 (d, 2H), 7.62 (d, 2H), 7.59-7.66 (m, 2H), 7.45-7.57 (m, 2H), 7.16-7.64 (t, 1H), 6.85 (s, 1H).

25

#### Example 354

##### N-(4-(5-(difluoromethoxy)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2,3-difluorobenzamide

30 Example 322B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 154-155 °C;

MS (DCI/NH<sub>3</sub>) m/e 451 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.69 (s, 1H), 7.79 (d, 2H), 7.53 (d, 3H), 7.4 (t, 1H), 7.2 (m, 1H), 7.09-7.45 (t, 1H), 6.69 (s, 1H).

Example 355N-(4-(5-chloro-3-(3-furyl)-1H-pyrazol-1-yl)phenyl)-4-methyl-1,2,3-thiadiazole-5-carboxamide

5

Example 355A3-(3-furyl)-1-(4-nitrophenyl)-1H-pyrazol-5-ol

Ethyl  $\beta$ -oxo-3-furanpropionate (2 g, 10.9 mmol) in ethanol (100 mL) was added *p*-nitrophenylhydrazine (1.77 g, 11.6 mmol) and 4M HCl in dioxane. The mixture was heated to reflux for 3 hours. Upon cooling to room temperature, the solvent was removed and the crude product was used in the next step without further purification.

10

MS (APCI) *m/e* 270 (M-H)<sup>-</sup>;

<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 300 MHz)  $\delta$  8.35 (d, 2H), 8.20 (s, 1H), 8.13 (d, 2H), 7.75 (t, 1H), 6.88 (d, 1H), 6.90 (s, 1H).

15

Example 355B4-[5-chloro-3-(3-furyl)-1H-pyrazol-1-yl]aniline

Example 355A (1.0 g, 3.7 mmol) was added to phenylphosphonic dichloride (5 mL) in a sealed tube. The mixture was heated to 120 °C (oil bath) for 5 hours. Upon cooling to room temperature, the mixture was poured over a period of 30 minutes into an ice cold saturated aqueous solution of NaHCO<sub>3</sub> (100 mL). The resulting mixture was extracted with ethyl acetate (3 x 100 mL). The organic layers were combined and passed through a filter cake (100 mL silica gel and 15 g anhydrous magnesium) eluting with ethyl acetate. Solvent was removed leaving the product as a brown oil.

20

MS (DCI/NH<sub>3</sub>) *m/e* 260 (M+H)<sup>+</sup> (For aniline produced under analysis conditions.)

25

<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 300 MHz)  $\delta$  8.4 (d, 2H), 8.2 (s, 1H), 8.0 (d, 2H), 7.8 (t, 1H), 7.1 (s, 1H), 6.9 (m, 1H)

30

The crude product was redissolved in ethanol/water (20 mL, 3:1 v:v). Iron powder (1.5g, 27.3 mmol) and ammonium chloride (0.206 g, 3.89 mmol) were added, and the mixture was warmed to reflux for 1 hour. After cooling to room temperature, solvent was removed, and the residue was passed through a filter cake (100 mL silica gel and 15 g anhydrous magnesium sulfate) eluting with 20% acetone in hexanes (v:v). Fractions containing the desired product were combined, and solvent was removed leaving the product as a off white solid. (0.42 g, 44% overall yield).

MS (DCI/NH<sub>3</sub>) m/e 260 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.15 (d, 2H), 6.81 (s, 1H), 6.65 (d, 2H), 5.50 (s, 2H).

#### Example 355

5        N-(4-(5-chloro-3-(3-furyl)-1H-pyrazol-1-yl)phenyl)-4-methyl-1,2,3-thiadiazole-5-carboxamide

Example 355B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 150-152 °C;

10       MS (DCI/NH<sub>3</sub>) m/e 386 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.17 (m, 1H), 7.89 (d, 2H), 7.76 (t, 1H), 7.62 (d, 2H), 6.96 (s, 1H), 6.86 (m, 1H), 2.84 (s, 3H).

#### Example 356

15       N-(4-(5-chloro-3-(3-furyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide

Example 355B was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 165-166 °C;

MS (DCI/NH<sub>3</sub>) m/e 383 (M+H)<sup>+</sup>;

20       <sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.98 (s, 1H), 8.80 (s, 1H), 8.63 (d, 1H), 8.18 (s, 1H), 7.90 (d, 2H), 7.77-7.74 (m, 2H), 7.65 (d, 2H), 6.97 (s, 1H), 6.87 (m, 1H).

#### Example 357

25       N-(4-(5-cyano-3-tetrahydro-2-furanyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide

#### Example 357A

##### (±)-N'-(4-nitrophenyl)tetrahydro-2-furancarbohydrazide

30       A mixture of 4-nitrophenylhydrazine (719 mg, 4.70 mmol), tetrahydro-2-furoic acid (818 mg, 7.05 mmol), dimethylaminopyridine (860 mg, 7.05 mmol) and 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride (1.34 g, 7.05 mmol) in methylene chloride (20 mL) was stirred at room temperature for 24 hours. The reaction mixture was diluted with ethyl acetate (150 mL) and the organic mixture was washed with 1N HCl solution (150 mL) and saturated sodium bicarbonate solution (150 mL). The organic layer was dried

over sodium sulfate, filtered and concentrated to a crude solid which was pure enough to use in the next step (1.20g, 99% yield).

MS (DCI/NH<sub>3</sub>) m/e 269 (M + NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.05 (s, 1H), 9.00 (s, 1H), 8.06 (d, 2H), 6.71 (d, 2H),  
5 4.43 (dd, 1H), 3.95 (m, 1H), 3.80 (m, 1H), 2.20 (m, 1H), 2.01-1.80 (m, 3H).

#### Example 357B

##### N-(4-nitrophenyl)tetrahydro-2-furancarbohydrazonoyl chloride

A mixture of Example 357A (1.15 g, 4.58 mmol), triphenylphosphine (1.80 g, 6.87  
10 mmol), and carbon tetrachloride (0.70 mL, 6.87 mmol) in methylene chloride (10 mL) and acetonitrile (5 mL) was stirred at room temperature for 20 hours. The reaction mixture was concentrated and purified by flash chromatography using 15% ethyl acetate/ 85% hexane to afford the title compound (420 mg, 34% yield) as an oil.

MS (DCI/NH<sub>3</sub>) m/e 287 (M + NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.45 (s, 1H), 8.17 (d, 2H), 7.34 (d, 2H), 4.74 (t, 1H),  
15 3.92-3.79 (m, 2H), 2.25-1.88 (m, 4H).

#### Example 357C

##### 1-(4-nitrophenyl)-3-tetrahydro-3-furanyl-1H-pyrazole-5-carbonitrile

A mixture of the Example 357C (207 mg, 0.768 mmol), 2-chloroacrylonitrile (100 mg,  
20 1.15 mmol) and triethylamine (0.225 mL, 1.61 mmol) in toluene (5 mL) was heated to 70 °C for 2 hours. The reaction mixture was concentrated and purified by flash chromatography using 10% ethyl acetate/ 90% hexane to afford the title compound (155 mg, 71% yield) as an oil.

25 MS (DCI/NH<sub>3</sub>) m/e 285 (M + H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.48 (d, 2H), 8.07 (d, 2H), 7.56 (s, 1H), 4.99 (t, 1H), 3.92  
(m, 1H), 3.80 (m, 1H), 2.27 (m, 1H), 2.00 (m, 3H).

#### Example 357D

##### 1-(4-aminophenyl)-3-tetrahydro-3-furanyl-1H-pyrazole-5-carbonitrile

30 The nitro group of Example 357C was reduced with iron as described previously.

MS (DCI/NH<sub>3</sub>) m/e 255 (M + H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.27 (d, 2H), 7.26 (s, 1H), 6.67 (d, 2H), 5.57 (s, 2H), 4.91  
(t, 1H), 3.90 (m, 1H), 3.78 (m, 1H), 2.25 (m, 1H), 1.98 (m, 3H).

Example 357N-(4-(5-cyano-3-tetrahydro-2-furanyl-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide

Example 357D was processed as in Example (i)-a (Method 5, 6, or 7) to provide the  
5 title compound.  
mp 160-162 °C;  
MS (DCI/NH<sub>3</sub>) m/e 395 (M + NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 11.01 (s, 1H), 8.80 (s, 1H), 8.62 (d, 1H), 7.93 (d, 2H),  
7.75 (t, 1H), 7.74 (d, 2H), 7.43 (s, 1H), 4.96 (t, 1H), 3.93 (m, 1H), 3.80 (m, 1H), 2.30 (m, 1H),  
10 1.99 (m, 3H).

Example 358N-(4-(5-(difluoromethoxy)-3-(1-methyl-1H-pyrrol-3-yl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide

15

Example 358Amethyl 3-(1-methyl-1H-pyrrol-3-yl)-3-oxopropanoate

To a -78° C solution of lithium hexamethyldisilazide (2 mL, 2 mmol) in tetrahydrofuran (5 mL) was added 3-acetyl-1-methylpyrrole (0.24 mL, 2 mmol). The reaction  
20 was warmed to 0 °C and stirred for 1 hour. The reaction mixture was again cooled to -78 °C, and methylcyanoformate (0.19 mL, 2.4 mmol) was added. After stirring for 1 hour at -78 °C, the reaction was slowly allowed to warm to room temperature. Then the reaction mixture was partitioned between ether and 1 N HCl. The organic layer was washed with saturated aqueous NaHCO<sub>3</sub> and brine, dried over Na<sub>2</sub>SO<sub>4</sub>, and concentrated to give crude material. Purification  
25 by HPLC (silica gel; acetone-hexane, 20:80) provided the desired product (0.18 g, 50% yield).  
MS (DCI/NH<sub>3</sub>) m/e 199 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.64 (t, 1H), 6.84 (dd, 1H), 6.47 (dd, 1H), 5.45 (s, 1H),  
3.67 (s, 3H), 3.66 (s, 3H).

30

Example 358B3-(1-methyl-1H-pyrrol-3-yl)-1-(4-nitrophenyl)-1H-pyrazol-5-ol

Condensation of of the β-ketoester prepared above with p-nitrophenylhydrazine using conditions previously described furnished the hydroxypyrazole in 64% yield.  
MS (DCI/NH<sub>3</sub>) m/e 302 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.34 (d, 2H), 8.17 (d, 2H), 7.3 (bt, 1H), 6.87 (bt, 1H), 6.49 (bt, 1H), 5.22 (bs, 1H), 3.68 (bs, 3H).

Example 358C

5      5-(difluoromethoxy)-3-(1-methyl-1H-pyrrol-3-yl)-1-(4-nitrophenyl)-1H-pyrazole

The difluoromethoxy ether was prepared using alkylation conditions analogous to those described in the preparation of Example 322A in 59% yield.

MS (DCI/NH<sub>3</sub>) m/e 335 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.49 (d, 2H), 7.97 (d, 2H), 7.64-7.16 (t, 1H), 7.25 (t, 1H),  
10      6.78 (t, 1H), 6.48 (s, 1H) 6.42 (dd, 1H), 3.65 (s, 3H).

Example 358D

4-[5-(difluoromethoxy)-3-(1-methyl-1H-pyrrol-3-yl)-1H-pyrazol-1-yl]aniline

The aniline was prepared using the iron powder reduction conditions described in the  
15      preparation of 322B in 93% yield.

MS (DCI/NH<sub>3</sub>) m/e 305 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.51-7.03 (t, 1H), 7.15 (d, 2H), 7.09 (t, 1H), 6.7 (t, 1H),  
6.63 (d, 2H), 6.3 (dd, 1H), 6.2 (s, 1H), 5.33 (s, 2H), 3.63 (s, 3H).

20      Example 358

N-(4-(5-(difluoromethoxy)-3-(1-methyl-1H-pyrrol-3-yl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide

Example 358D was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

25      mp 135-136 °C;

MS (DCI/NH<sub>3</sub>) m/e 428 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.79 (s, 1H), 8.62 (d, 1H), 7.85 (d, 2H), 7.74 (t, 1H), 7.62 (d, 2H), 7.17 (t, 1H), 7.1-7.58 (t, 1H), 6.74 (t, 1H), 6.37 (dd, 1H), 6.34 (s, 1H), 3.65 (s, 3H).

30      Example 359

N-(4-(5-(difluoromethoxy)-3-(3-furyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide

Example 359A

Example 355A (1 g, 3.89 mmol) and  $K_2CO_3$  (1.53 g, 11.1 mmol) were combined in dimethylformamide (10 mL) and heated to 50 °C. Chlorodifluoromethane was bubbled into the reaction mixture for 45 minutes. The mixture was then cooled to room temperature and partition between saturated NaCl solution (50 mL) and diethyl ether (50 mL). The organic layer was separated, the aqueous layer was washed again with diethyl ether (2 x 50 mL). The combined organic layers were dried over  $MgSO_4$  and concentrated in vacuo. The residue was passed through a silica gel cake (150 mL) eluting with 20% acetone in hexanes and then concentrated in vacuo to provide the desired product.

MS (DCI/ $NH_3$ ) m/e 292 ( $M+H$ )<sup>+</sup> (For the aniline produced under the analysis conditions.);

$^1H$  NMR (DMSO- $d_6$ , 300 MHz)  $\delta$  8.42 (d, 2H), 8.29 (s, 1H), 7.99 (d, 2H), 7.80 (t, 1H), 7.42 (t, 1H), 6.92 (s, 1H), 6.70 (s, 1H).

The crude product was redissolved in 20 mL of ethanol/water (3:1/v:v). Iron powder (1.5g, 27.27 mmol) and ammonium chloride (0.206 g, 3.89 mmol) were added and the mixture was warmed to reflux for 1 hour. Upon cooling to room temperature, solvent was removed in vacuo, and the residue was loaded onto a filter cake (100 mL silica gel and 15 g anhydrous magnesium sulfate) and then eluted with 50% acetone in hexanes (v:v). Fractions containing the desired product were combined and solvent removed in vacuo leaving the product as an off white solid (0.52 g, 48% overall yield).

MS (DCI/ $NH_3$ ) m/e 292 ( $M+H$ )<sup>+</sup>.

#### Example 359

N-(4-(5-(difluoromethoxy)-3-(3-furyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide

Example 359A was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

mp 172-174 °C;

MS (DCI/ $NH_3$ ) m/e 415 ( $M+H$ )<sup>+</sup>;

$^1H$  NMR (DMSO- $d_6$ , 300 MHz)  $\delta$  8.77 (m, 1H), 8.60 (m, 1H), 8.20 (m, 1H), 7.87 (d, 2H), 7.75 (m, 1H), 7.73 (m, 1H), 7.63 (d, 2H), 7.35 (t, 1H), 6.89 (m, 1H), 6.55 (s, 1H).

#### Example 360

N-(4-(5-(difluoromethoxy)-3-(1-methyl-1H-pyrrol-2-yl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide

#### Example 360A

ethyl 3-(1-methyl-1*H*-pyrrol-2-yl)-3-oxopropanoate

1-Methyl-2-pyrrolicarboxylic acid (1.25 g, 10 mmol) was heated to reflux in thionyl chloride (10 mL) for 2 hours. The excess thionyl chloride was removed under vacuum. Ethyl malonate (2.64 g, 20 mmol) in tetrahydrofuran (50 mL, containing 1 mg of 2,2'-bipyridyl as an indicator) was cooled to -70 °C. n-Butyllithium ( 2.5 M solution in hexane) was added slowly until the pink color persisted for several minutes. After stirring for 5 minutes, 1-methyl-2-pyrrolicarboxylic acid chloride in tetrahydrofuran (6 mL) was then added dropwise . The reaction was stirred at -70 °C for 30 minutes and slowly warmed to room temperature for 2 hours. The reaction mixture was partitioned between ether and 1 N HCl. The organic layer was washed with saturated aqueous NaHCO<sub>3</sub> and brine, dried over Na<sub>2</sub>SO<sub>4</sub> and concentrated to give the crude beta-ketoester (0.65 g, 33% yield).  
MS (DCI/NH<sub>3</sub>) m/e 213 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.2 (t, 1H), 7.11 (dd, 1H), 6.15 (dd, 1H), 4.1 (q, 2H), 3.89 (s, 2H), 3.84 (s, 3H), 1.18 (t, 3H).

Example 360B

3-(1-methyl-1*H*-pyrrol-2-yl)-1-(4-nitrophenyl)-1*H*-pyrazol-5-ol

Condensation of of the beta-ketoester prepared above with p-nitrophenylhydrazine using conditions previously described furnished the hydroxypyrazole in 44% yield.  
MS (DCI/NH<sub>3</sub>) m/e 302 (M+NH<sub>4</sub>)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.34 (d, 2H), 8.17 (bd, 2H), 6.85 (bs, 1H), 6.49 (bs, 1H), 6.04 (bs, 1H), 5.8 (bs, 1H), 3.95 (bs, 3H).

Example 360C

5-(difluoromethoxy)-3-(1-methyl-1*H*-pyrrol-2-yl)-1-(4-nitrophenyl)-1*H*-pyrazole

The difluoromethoxy ether was prepared using alkylation conditions analogous to those described in the preparation of Example 322A in 23% yield.  
MS (DCI/NH<sub>3</sub>) m/e 335 (M+H)<sup>+</sup>;  
<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 8.4 (d, 2H), 8.1 (d, 2H), 7.68-7.2 (t, 1H), 6.9 (t, 1H), 6.63 (s, 1H), 6.48 (dd, 1H) 6.08 (dd, 1H), 3.96 (s, 3H).

Example 360D

4-[5-(difluoromethoxy)-3-(1-methyl-1*H*-pyrrol-2-yl)-1*H*-pyrazol-1-yl]aniline



The aniline was prepared using the iron powder reduction conditions described in the preparation of 322B in quantitative yield.

MS (DCI/NH<sub>3</sub>) m/e 305 (M+H)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 7.66-7.18 (t, 1H), 7.2 (d, 2H), 6.8 (t, 1H), 6.64 (d, 2H), 6.4  
5 (dd, 1H), 6.36 (s, 1H), 6.03 (dd, 1H), 5.39 (s, 2H), 3.87 (s, 3H).

Example 360

N-(4-(5-(difluoromethoxy)-3-(1-methyl-1H-pyrrol-2-yl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide

10 Example 360D was processed as in Example (i)-a (Method 5, 6, or 7) to provide the title compound.

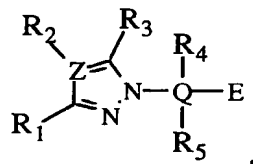
mp 154-155 °C;

MS (DCI/NH<sub>3</sub>) m/e 428 (M+NH<sub>4</sub>)<sup>+</sup>;

<sup>1</sup>H NMR (DMSO-d<sub>6</sub>, 300 MHz) δ 10.9 (s, 1H), 8.8 (s, 1H), 8.62 (d, 1H), 7.87 (d, 2H), 7.74  
15 (t, 1H), 7.68 (d, 2H), 7.14-7.62 (t, 1H), 6.84 (t, 1H), 6.06 (t, 1H), 4.49 (s, 1H), 4.48 (t, 1H), 3.92 (s, 3H).

## WHAT IS CLAIMED IS:

## 1. A compound having Formula I



I

- 5 or a pharmaceutically acceptable salt or prodrug thereof, where  $\text{R}_1$  and  $\text{R}_3$  are independently selected from
- (1) hydrogen,
  - (2) aryl,
  - (3) perfluoroalkyl of one to fifteen carbons,
  - 10 (4) halo,
  - (5) -CN,
  - (6) -NO<sub>2</sub>,
  - (7) -OH,
  - (8) -OG where G is a hydroxyl protecting group,
  - 15 (9) -CO<sub>2</sub>R<sub>6</sub> where R<sub>6</sub> is selected from
    - (a) hydrogen,
    - (b) cycloalkyl of three to twelve carbons,
    - (c) aryl,
    - (d) aryl substituted with 1, 2, 3, 4, or 5 substituents independently
 

20 selected from

      - (i) alkyl of one to fifteen carbons,
      - (ii) alkoxy of one to fifteen carbons,
      - (iii) thioalkoxy of one to fifteen carbons,
      - (iv) halo,
      - 25 (v) -NO<sub>2</sub>, and
      - (vi) -N<sub>3</sub>,
    - (e) a carboxy protecting group,
    - (f) alkyl of one to fifteen carbons,
    - (g) alkyl of one to fifteen carbons substituted with 1, 2, or 3, or 4

- 30 substituents independently selected from
- (i) alkoxy of one to fifteen carbons,
  - (ii) thioalkoxy of one to fifteen carbons,
  - (iii) aryl,
  - (iv) aryl substituted with 1, 2, 3, 4, or 5 substituents
- 35 independently selected from
- alkyl of one to fifteen carbons,
  - alkoxy of one to fifteen carbons,
  - thioalkoxy of one to fifteen carbons,
  - halo,
  - 40 -NO<sub>2</sub>, and
  - N<sub>3</sub>,
  - (v) cycloalkyl of three to twelve carbons, and
  - (vi) halo,
- (h) alkenyl of three to fifteen carbons,
- 45 provided that a carbon of a carbon-carbon double bond is not attached directly to oxygen,
- (i) alkynyl of three to fifteen carbons,
- provided that a carbon of a carbon-carbon triple bond is not attached directly to oxygen, and
- 50 (j) cycloalkyl of three to twelve carbons,
- (10) -L<sub>1</sub>NR<sub>7</sub>R<sub>8</sub> where L<sub>1</sub> is selected from
- (a) a covalent bond,
  - (b) -X'C(X)- where X and X' are independently O or S,
  - (c) -C(X)-, and
  - 55 (d) -NR<sub>6</sub>- and
- R<sub>7</sub> and R<sub>8</sub> are independently selected from
- (a) hydrogen,
  - (b) alkanoyl where the alkyl part is one to fifteen carbons,
  - (c) alkoxycarbonyl where the alkyl part is one to fifteen carbons,
  - 60 (d) alkoxycarbonyl where the alkyl part is one to fifteen carbons and
- is substituted with 1 or 2 substituents selected from the group consisting of aryl,
- (e) cycloalkyl of three to twelve carbons,

- 65 (f) aryl,  
(g) aryl substituted with 1, 2, 3, 4, or 5 substituents independently  
selected from  
(i) alkyl of one to fifteen carbons,  
(ii) alkoxy of one to fifteen carbons,  
(iii) thioalkoxy of one to fifteen carbons,  
70 (iv) halo,  
(v) -NO<sub>2</sub>, and  
(vi) -N<sub>3</sub>,  
(h) -OR<sub>6</sub>,  
provided that only one of R<sub>7</sub> or R<sub>8</sub> is -OR<sub>6</sub>,  
75 (i) a nitrogen protecting group,  
(j) alkyl of one to fifteen carbons,  
(k) alkyl of one to fifteen carbons substituted with 1, 2, or 3, or 4  
substituents independently selected from  
(i) alkoxy of one to fifteen carbons,  
80 (ii) thioalkoxy of one to fifteen carbons,  
(iii) aryl,  
(iv) aryl substituted with 1, 2, 3, 4, or 5 substituents  
independently selected from  
alkyl of one to fifteen carbons,  
85 alkoxy of one to fifteen carbons,  
thioalkoxy of one to fifteen carbons,  
halo,  
-NO<sub>2</sub>, and  
-N<sub>3</sub>,  
90 (v) cycloalkyl of three to fifteen carbons,  
(vi) halo,  
(vii) -CO<sub>2</sub>R<sub>6</sub>, and  
(viii) -OH,  
(l) alkenyl of three to fifteen carbons,  
95 provided that a carbon of a carbon-carbon double bond is not  
attached directly to nitrogen,  
(m) alkynyl of three to fifteen carbons,

- provided that a carbon of a carbon-carbon triple bond is not attached directly to nitrogen,
- 100 (n) -SO<sub>2</sub>-alkyl, and
- (o) cycloalkyl of three to twelve carbons, or R<sub>7</sub> and R<sub>8</sub> together with the nitrogen atom to which they are attached form a ring selected from
- 105 (i) aziridine,
- (ii) azetidine,
- (iii) pyrrolidine,
- (iv) piperidine,
- (v) piperazine,
- (vi) morpholine,
- 110 (vii) thiomorpholine, and
- (viii) thiomorpholine sulfone
- where (i)-(viii) can be optionally substituted with 1, 2, or 3 substituents selected from the group consisting of alkyl of one to fifteen carbons,
- 115 (11) -L<sub>2</sub>R<sub>9</sub> where L<sub>2</sub> is selected from
- (a) -L<sub>1</sub>-,
- (b) -O-, and
- (c) -S(O)<sub>t</sub>- where t is 0, 1, or 2 and R<sub>9</sub> is selected from
- 120 (a) cycloalkyl of three to twelve carbons,
- (b) aryl
- (c) aryl substituted with 1, 2, 3, 4, or 5 substituents independently selected from
- 125 (i) alkyl of one to fifteen carbons,
- (ii) alkoxy of one to fifteen carbons,
- (iii) thioalkoxy of one to fifteen carbons,
- (iv) halo,
- (v) -NO<sub>2</sub>, and
- (vi) -N<sub>3</sub>,
- 130 (d) alkyl of one to fifteen carbons,
- (e) heterocycle,

- (f) alkenyl of two to fifteen carbons, and
- (e) alkyl of one to fifteen carbons substituted with 1, 2, or 3, or 4 substituents independently selected from
- 135 (i) alkenyl of two to fifteen carbons,
- (ii) alkoxy of one to fifteen carbons,
- (iii) -CN,
- (iv) -CO<sub>2</sub>R<sub>6</sub>,
- (v) -OH,
- 140 provided that no two -OH groups are attached to the same carbon,
- (vi) thioalkoxy of one to fifteen carbons,
- (vii) alkynyl of two to fifteen carbons,
- (viii) aryl,
- 145 (ix) aryl substituted with 1, 2, 3, 4, or 5 substituents independently selected from
- alkyl of one to fifteen carbons,
- alkoxy of one to fifteen carbons,
- thioalkoxy of one to fifteen carbons,
- 150 halo,
- NO<sub>2</sub>, and
- N<sub>3</sub>,
- (x) cycloalkyl of three to twelve carbons, and
- (xi) halo,
- 155 (xii) -NR<sub>7</sub>R<sub>8</sub>,
- (xiii) heterocycle, and
- (xiv) heterocycle substituted with 1, 2, or 3, or 4 substituents independently selected from
- alkyl of one to fifteen carbons,
- 160 alkoxy of one to fifteen carbons,
- thioalkoxy of one to fifteen carbons,
- halo,
- NO<sub>2</sub>, and
- N<sub>3</sub>,
- 165 (12) alkyl of one to fifteen carbons substituted with 1, 2, 3, 4, or 5 halo substituents,

- (13) alkyl of one to fifteen carbons,  
 (14) alkenyl of two to fifteen carbons,  
 (15) alkynyl of two to fifteen carbons  
 where (13)-(15) can be optionally substituted with
- 170 (a) (=X),  
 (b) alkanoyloxy where the alkyl part is one to fifteen carbons,  
 (c) alkoxy of one to fifteen carbons,  
 (d) alkoxy of one to fifteen carbons substituted with 1, 2, 3, 4, or 5 substituents  
 selected from the group consisting of halo,
- 175 (e) thioalkoxy of one to fifteen carbons,  
 (f) perfluoroalkoxy of one to fifteen carbons,  
 (g) -N<sub>3</sub>,  
 (h) -NO<sub>2</sub>,  
 (i) -CN,
- 180 (j) -OH,  
 (k) -OG  
 (l) cycloalkyl of three to twelve carbons,  
 (m) halo,  
 (n) -CO<sub>2</sub>R<sub>6</sub>,
- 185 (o) -L<sub>1</sub>NR<sub>7</sub>R<sub>8</sub>, and  
 (p) -L<sub>2</sub>R<sub>9</sub>,  
 (16) -L<sub>2</sub>-heterocycle, and  
 (17) -L<sub>2</sub>-heterocycle where the heterocycle is substituted with 1, 2, 3 or 4  
 substituents independently selected from
- 190 (a) alkyl of one to fifteen carbons,  
 (b) perfluoroalkyl of one to fifteen carbons,  
 (c) alkoxy of one to fifteen carbons,  
 (d) thioalkoxy of one to fifteen carbons,  
 (e) halo, and
- 195 (f) -NO<sub>2</sub>,
- (18) -NR<sub>X</sub>C(O)NR<sub>Y</sub>R<sub>Z</sub> where R<sub>X</sub>, R<sub>Y</sub> and R<sub>Z</sub> are independently selected from  
 (a) hydrogen and  
 (b) alkyl of one to fifteen carbons,  
 (19) -C(=NR<sub>X</sub>)NR<sub>Y</sub>R<sub>Z</sub>,

- 200 (20)  $-\text{NR}_X\text{C}(=\text{NR}_{X'})\text{NR}_Y\text{R}_Z$  where  $\text{R}_X$ ,  $\text{R}_Y$  and  $\text{R}_Z$  are defined previously and  $\text{R}_{X'}$   
is selected from  
(a) hydrogen and  
(b) alkyl of one to fifteen carbons,
- 205 (21)  $-\text{NR}_X\text{C}(\text{O})\text{OR}_W$ , where  $\text{R}_W$  is selected from  
(a) alkyl of one to fifteen carbons and  
(b) alkenyl of three to fifteen carbons,  
provided that a carbon of a carbon-carbon double bond is not attached  
directly to oxygen, and
- (22)  $-\text{OC}(\text{O})\text{NR}_7\text{R}_8$ ;
- 210 **Z** is nitrogen or carbon;
- R<sub>2</sub>** is absent or is selected from
- 215 (1) hydrogen,  
(2)  $-\text{CO}_2\text{R}_6$ ,  
(3) alkyl of one to fifteen carbons,  
(4)  $-\text{C}(\text{O})\text{R}_6'$  where  $\text{R}_6'$  is selected from  
(a) alkyl of one to fifteen carbons,  
(b) aryl, and  
220 (c) heterocycle,
- (5)  $-\text{C}(\text{O})\text{NR}_7'\text{R}_8'$  where  $\text{R}_7'$  and  $\text{R}_8'$  are independently selected from  
(a) hydrogen,  
(b) alkyl of one to fifteen carbons, or  
 $\text{R}_7'$  and  $\text{R}_8'$  together with the nitrogen to which they are attached form a ring  
225 selected from  
(i) piperidine,  
(ii) piperazine,  
(iii) morpholine,  
(iv) thiomorpholine, and  
230 (v) thiomorpholine sulfone
- (6) perfluoroalkyl of one to fifteen carbons,  
(7) cycloalkyl of three to ten carbons,  
(8) alkyl of one to fifteen carbons substituted with 1, 2, 3, 4, or 5 substituents



- selected from the group consisting of halo,
- 235 (9) alkyl of one to fifteen carbons substituted with
- (a) -CN,
- (b) -OH,
- provided that no two -OH groups are attached to the same carbon,
- (c) (=X), and
- 240 (d) -CO<sub>2</sub>R<sub>6</sub>, and
- (10) halogen;
- provided that when X is nitrogen, R<sub>2</sub> is absent;

245 Q is aryl or heterocycle where, when Q is phenyl, the phenyl is 2-, 3-, or 4- substituted by E relative to the position of attachment of the pyrazole or 1,2,4-triazole ring to the phenyl ring;

R<sub>4</sub> and R<sub>5</sub> are independently selected from

- (1) hydrogen,
- 250 (2) alkyl of one to fifteen carbons,
- (3) alkyl of one to fifteen carbons substituted with 1, 2, 3, 4, or 5 halo substituents,
- (4) alkyl of one to fifteen carbons substituted with
- (a) -CN,
- (b) -CO<sub>2</sub>R<sub>6</sub>,
- 255 (c) -L<sub>1</sub>NR<sub>7</sub>R<sub>8</sub>, and
- (d) -L<sub>2</sub>R<sub>9</sub>,
- (5) perfluoroalkyl of one to fifteen carbons,
- (6) -CN,
- (7) -CO<sub>2</sub>R<sub>6</sub>,
- 260 (8) -L<sub>1</sub>NR<sub>7</sub>R<sub>8</sub>,
- (9) -L<sub>2</sub>R<sub>9</sub>,
- (10) alkoxy of one to fifteen carbons,
- (11) thioalkoxy of one to fifteen carbons,
- (12) halo,
- 265 (13) -C(=NR<sub>6</sub>)NR<sub>7</sub>R<sub>8</sub>,
- (14) -NR<sub>12</sub>(=NR<sub>6</sub>)NR<sub>7</sub>R<sub>8</sub> where R<sub>6</sub>, R<sub>7</sub>, and R<sub>8</sub> are defined previously and R<sub>12</sub> is selected from

- 270 (a) hydrogen,  
 (b) cycloalkyl of three to twelve carbons,  
 (c) aryl,  
 (d) alkyl of one to fifteen carbons, and  
 (e) alkyl of one to fifteen carbons substituted with 1, 2, or 3, or 4  
 substituents independently selected from
- 275 (i) alkenyl of two to fifteen carbons,  
 (ii) alkoxy of one to fifteen carbons,  
 (iii) thioalkoxy of one to fifteen carbons,  
 (iv) alkynyl of two to fifteen carbons, and  
 (v) aryl,
- (15) -L<sub>2</sub>-heterocycle, and
- 280 (16) -L<sub>2</sub>-heterocycle where the heterocycle is substituted with 1, 2, 3, or 4  
 substituents independently selected from
- (a) alkyl of one to fifteen carbons,  
 (b) perfluoroalkyl of one to fifteen carbons,  
 (c) alkoxy of one to fifteen carbons,  
 285 (d) thioalkoxy of one to fifteen carbons,  
 (e) halo,  
 (f) -N<sub>3</sub>, and  
 (g) -NO<sub>2</sub>;
- 290 E is
- (1) -L<sub>3</sub>-B where L<sub>3</sub> is selected from
- (a) a covalent bond,  
 (b) alkenylene of two to six carbons in the Z or E configuration,  
 (c) alkynylene of two to six carbons,  
 295 (d) -C(X)-,  
 (e) -N=N-,  
 (f) -NR<sub>7</sub>-,  
 (g) -N(R<sub>7</sub>)C(O)N(R<sub>8</sub>)-,  
 (h) -N(R<sub>7</sub>)SO<sub>2</sub>N(R<sub>8</sub>)-,  
 300 (i) -X-,  
 (j) -(CH<sub>2</sub>)<sub>m</sub>O-,

- 305 (k)  $-\text{O}(\text{CH}_2)_m-$ ,  
 (l)  $-\text{N}(\text{R}_7)\text{C}(\text{X})-$ ,  
 (m)  $-\text{C}(\text{X})\text{N}(\text{R}_7)-$ ,  
 (n)  $-\text{S}(\text{O})_t(\text{CH}_2)_m-$ ,  
 (o)  $-(\text{CH}_2)_m\text{S}(\text{O})_t-$ ,  
 (p)  $-\text{NR}_7(\text{CH}_2)_m-$ ,  
 (q)  $-(\text{CH}_2)_m\text{NR}_7-$ ,  
 (r)  $-\text{NR}_7\text{S}(\text{O})_t-$ ,  
 310 (s)  $-\text{S}(\text{O})_t\text{NR}_7-$ ,  
 (t)  $-\text{N}=\text{C}(\text{H})-$ ,  
 (u)  $-\text{C}(\text{H})=\text{N}-$ ,  
 (v)  $-\text{ON}=\text{CH}-$ ,  
 (w)  $-\text{CH}=\text{NO}-$

315 where (g)-(w) are drawn with their left ends attached to Q,

- (x)  $-\text{N}(\text{R}_7)\text{C}(\text{O})\text{N}(\text{R}_{10})(\text{R}_{11})-$  where  $\text{R}_{10}$  and  $\text{R}_{11}$  together with the nitrogen atom to which they are attached form a ring selected from  
 (i) morpholine,  
 (ii) thiomorpholine,  
 320 (iii) thiomorpholine sulfone, and  
 (iv) piperidine

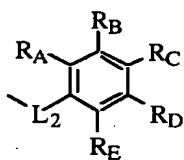
where (i)-(iv) are attached to Q through the nitrogen to which is attached  $\text{R}_7$  and to B through a carbon in the ring,

- (y)  $-\text{N}(\text{R}_7)\text{SO}_2\text{N}(\text{R}_{10})(\text{R}_{11})-$ , and  
 325 (z)  $-\text{N}(\text{R}_7)\text{C}(\text{O})\text{N}(\text{R}_{10})(\text{R}_{11})-$  and

B is selected from

- (a) alkyl of one to fifteen carbons,  
 (b) alkenyl of three to fifteen carbons in the E or Z configuration,  
 provided that a carbon of a carbon-carbon double bond is not directly  
 330 attached to  $\text{L}_3$  when  $\text{L}_3$  is other than a covalent bond,  
 (c) alkynyl of three to fifteen carbons,  
 provided that a carbon of a carbon-carbon triple bond is not directly  
 attached to  $\text{L}_3$  when  $\text{L}_3$  is other than a covalent bond

where (a), (b) and (c), can be optionally substituted with 1, 2, 3, or 4  
 335 substituents independently selected from

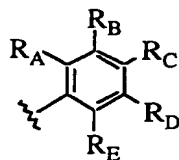


- (i) where  $L_2$  is defined previously and  $R_A$ ,  $R_B$ ,  $R_C$ ,  $R_D$ , and  $R_E$  are independently selected from
- hydrogen,
  - alkanoyl where the alkyl part is one to fifteen carbons,
  - alkanoyloxy where the alkyl part is one to fifteen carbons,
  - alkoxy of one to fifteen carbons,
  - thioalkoxy of one to fifteen carbons,
  - alkoxy of one to fifteen carbons substituted with 1, 2, 3, 4, or 5 substituents selected from the group consisting of halo ,
  - perfluoroalkyl of one to fifteen carbons,
  - perfluoroalkoxy of one to fifteen carbons,
  - $-N_3$ ,
  - $-NO_2$ ,
  - $-CN$ ,
  - $-OH$ ,
  - $-OG$ ,
  - cycloalkyl of three to fifteen carbons,
  - halo,
  - $-CO_2R_6$
  - $-L_1NR_7R_8$
  - $-L_2R_9$
  - alkyl of one to fifteen carbons,
  - alkyl of one to fifteen carbons substituted with 1, 2, 3, 4, or 5 substituents independently selected from  $(=X)$ ,
  - alkanoyloxy where the alkyl part is one to fifteen carbons,
  - alkoxy of one to fifteen carbons,

- thioalkoxy of one to fifteen carbons,  
 alkoxy of one to fifteen carbons substituted with  
 1, 2, 3, 4, or 5 halo substituents,  
 perfluoroalkoxy of one to fifteen carbons,  
 370 -N<sub>3</sub>,  
 -NO<sub>2</sub>,  
 -CN,  
 -OH,  
 provided that no two -OH groups are attached to  
 375 the same carbon,  
 -OG,  
 cycloalkyl of three to fifteen carbons,  
 halo,  
 -CO<sub>2</sub>R<sub>6</sub>,  
 380 -L<sub>1</sub>NR<sub>7</sub>R<sub>8</sub>, and  
 -L<sub>2</sub>R<sub>9</sub>,  
 -L<sub>2</sub>-heterocycle, and  
 -L<sub>2</sub>-heterocycle where the heterocycle is substituted  
 with  
 385 1, 2, 3, or 4 substituents independently  
 selected from  
 alkyl of one to fifteen carbons,  
 perfluoroalkyl of one to fifteen carbons,  
 alkoxy of one to fifteen carbons,  
 390 thioalkoxy of one to fifteen carbons,  
 halo,  
 -NR<sub>X</sub>C(O)NR<sub>Y</sub>R<sub>Z</sub>,  
 -C(=NR<sub>X</sub>)R<sub>Y</sub>R<sub>Z</sub>,  
 -NO<sub>2</sub>, and  
 395 -N<sub>3</sub>,
- (ii) (=X)  
 (iii) alkanoyloxy where the alkyl part is one to fifteen carbons,  
 (iv) alkoxy of one to fifteen carbons,  
 (v) alkoxy of one to fifteen carbons substituted with 1, 2, 3, 4, or 5

- 400 substituents selected from the group consisting of halo,
- (vi) thioalkoxy of one to fifteen carbons,
  - (vii) perfluoroalkoxy of one to fifteen carbons,
  - (viii) -N<sub>3</sub>,
  - (ix) -NO<sub>2</sub>,
  - 405 (x) -CN,
  - (xi) -OH,
- provided that no two -OH groups are attached to the same carbon,
- (xii) -OG,
  - 410 (xiii) cycloalkyl of three to fifteen carbons,
  - (xiv) halo,
  - (xv) -CO<sub>2</sub>R<sub>6</sub>,
  - (xvi) -L<sub>1</sub>NR<sub>7</sub>R<sub>8</sub>,
  - (xvii) perfluoroalkyl of one to fifteen carbons,
  - 415 (xviii) -L<sub>2</sub>-heterocycle, and
  - (xix) -L<sub>2</sub>-heterocycle where the heterocycle is substituted with 1, 2, 3, or 4 substituents independently selected from (=X),
- alkanoyl where the alkyl part is one to fifteen carbons,
- 420 alkanoyloxy where the alkyl part is one to fifteen carbons,
- alkoxy of one to fifteen carbons,
- alkoxy of one to fifteen carbons substituted with 1, 2, 3, 4, or 5 substituents selected from the group
- 425 consisting of halo ,
- thioalkoxy of one to fifteen carbons,
- perfluoroalkyl of one to fifteen carbons,
- perfluoroalkoxy of one to fifteen carbons,
- N<sub>3</sub>,
- 430 -NO<sub>2</sub>,
- CN,
- OH,
- provided that no two -OH groups are attached to the

- 435 same carbon,  
-OG,  
cycloalkyl of three to fifteen carbons,  
halo,  
-CO<sub>2</sub>R<sub>6</sub>,  
-L<sub>1</sub>NR<sub>7</sub>R<sub>8</sub>, and  
440 -L<sub>2</sub>R<sub>9</sub>,  
(d) cycloalkyl of three to twelve carbons,  
(e) cycloalkenyl of four to twelve carbons,  
provided that a carbon of a carbon-carbon-double bond is not attached  
directly to L<sub>3</sub> when L<sub>3</sub> is other than a covalent bond  
445 where (d) and (e) can be optionally substituted with 1, 2, 3, 4, or 5 substituents  
independently selected from  
(i) alkyl of one to fifteen carbons,  
(ii) aryl,  
(iii) alkoxy of one to fifteen carbons,  
450 (iv) thioalkoxy of one to fifteen carbons,  
(v) halo,  
(vi) -OH,  
provided that no two -OH groups are attached to the same  
carbon,  
455 (vii) oxo,  
(viii) perfluoroalkyl,  
(ix) heterocycle, and  
(x) heterocycle substituted with 1, 2, 3, 4, or 5 substituents  
independently selected from  
460 alkyl of one to fifteen carbons,  
perfluoroalkyl of one to fifteen carbons,  
alkoxy of one to fifteen carbons,  
thioalkoxy of one to fifteen carbons,  
halo,  
465 -NO<sub>2</sub>, and  
-N<sub>3</sub>,



(f)

provided that when  $R_1$  and  $R_3$  are both perfluoroalkyl of one carbon,  $Z$  is carbon,  $R_2$  is hydrogen,  $Q$  is phenyl that is 4-substituted by  $E$  relative to the position of attachment of the pyrazole ring to the phenyl group,  $R_4$  and  $R_5$  are hydrogen,  $E$  is  $-L_3-B$ ,  $L_3$  is  $-N(R_7)C(X)-$ ,  $R_7$  is hydrogen,  $X$  is oxygen, and  $R_A$ ,  $R_B$ ,  $R_D$ , and  $R_E$  are hydrogen,  $R_C$  is other than chloro, and

(g) heterocycle where the heterocycle can be optionally substituted with 1, 2, 3, or 4 substituents independently selected from

- (i)  $(=X)$ ,
  - (ii) alkanoyl where the alkyl part is one to fifteen carbons,
  - (iii) alkanoyloxy where the alkyl part is one to fifteen carbons,
  - (iv) alkoxy of one to fifteen carbons,
  - (v) alkoxy of one to fifteen carbons substituted with 1, 2, 3, 4, or 5 substituents selected from the group consisting of halo,
  - (vi) halo ,
  - (vii) thioalkoxy of one to fifteen carbons,
  - (viii) perfluoroalkyl of one to fifteen carbons,
  - (ix) perfluoroalkoxy of one to fifteen carbons,
  - (x)  $-N_3$ ,
  - (xi)  $-NO_2$ ,
  - (xii)  $-CN$ ,
  - (xiii)  $-OH$ ,
- provided that no two  $-OH$  groups are attached to the same carbon,
- (xiv)  $-OG$ ,
  - (xv) cycloalkyl of three to fifteen carbons,
  - (xvi) halo,



(xvii)  $-\text{CO}_2\text{R}_6$ ,

(xviii) alkyl optionally substituted with  $-\text{OH}$ ,

(xix)  $-\text{L}_1\text{NR}_7\text{R}_8$ , and

(xx)  $-\text{L}_2\text{R}_9$ ,

provided that when  $\text{R}_1$  and  $\text{R}_3$  are perfluoroalkyl of one carbon,

$\text{Z}$  is carbon,  $\text{R}_2$  is hydrogen,  $\text{Q}$  is phenyl that is 4-

substituted by  $\text{E}$  relative to the position of attachment of  
the pyrazole ring to the phenyl group,  $\text{R}_4$  and  $\text{R}_5$  are

hydrogen,  $\text{E}$  is  $-\text{L}_3-\text{B}$ ,  $\text{L}_3$  is  $-\text{N}(\text{R}_7)\text{C}(\text{X})-$ ,  $\text{R}_7$  is

hydrogen,  $\text{X}$  is oxygen, and  $\text{B}$  is a 1,2,3-thiadiazolyl ring  
attached to  $\text{L}_3$  through the 5-position of the ring, the

substituent at the 4-position of the 1,2,3-thiadiazolyl ring  
is other than alkyl of one carbon, and

further provided that when  $\text{R}_1$  and  $\text{R}_3$  are perfluoroalkyl of one

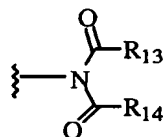
carbon,  $\text{Z}$  is carbon,  $\text{R}_2$  is hydrogen,  $\text{Q}$  is phenyl that is

4-substituted by  $\text{E}$  relative to the position of attachment  
of the pyrazole ring to the phenyl group,  $\text{R}_4$  and  $\text{R}_5$  are

hydrogen,  $\text{E}$  is  $-\text{L}_3-\text{B}$ ,  $\text{L}_3$  is  $-\text{N}(\text{R}_7)\text{C}(\text{X})-$ ,  $\text{R}_7$  is

hydrogen,  $\text{X}$  is oxygen, and  $\text{B}$  is an isoxazole ring  
attached to  $\text{L}_3$  through the 4-position of the ring, the

substituents at the 3- and 5- positions of the isoxazole  
ring are not both alkyl of one carbon or



(2) where  $\text{R}_{13}$  and  $\text{R}_{14}$  are independently selected from

(a) hydrogen,

(b) alkyl of one to fifteen carbons,

(c) alkenyl of three to fifteen carbons in the  $\text{E}$  or  $\text{Z}$  configuration,

provided that a carbon of a carbon-carbon double bond is not attached  
directly to the  $\text{C}(=\text{O})$  group,

(d) alkynyl of three to fifteen carbons,

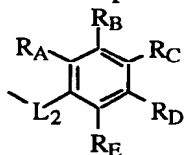
provided that a carbon-carbon triple bond is not directly attached to

the C(=O) group

where (b), (c), and (d) can be optionally substituted with 1, 2, 3, or 4

530

substituents independently selected from



(i)

(ii) (=X),

(iii) alkanoyloxy where the alkyl part is one to fifteen carbons,

(iv) alkoxy of one to fifteen carbons,

535

(v) alkoxy of one to fifteen carbons substituted with 1, 2, 3, 4, or 5  
substituents selected from the group consisting of halo,

(vi) thioalkoxy of one to fifteen carbons,

(vii) perfluoroalkoxy of one to fifteen carbons,

(viii) -N<sub>3</sub>,

540

(ix) -NO<sub>2</sub>,

(x) -CN,

(xi) -OH,

provided that no two -OH groups are attached to the same carbon,

(xii) -OG,

545

(xiii) cycloalkyl of three to fifteen carbons,

(xiv) halo,

(xv) -CO<sub>2</sub>R<sub>6</sub>,

(xvi) -L<sub>1</sub>NR<sub>7</sub>R<sub>8</sub>,

(xvii) perfluoroalkyl of one to fifteen carbons,

550

(xviii) -L<sub>2</sub>-heterocycle, and

(xix) -L<sub>2</sub>-heterocycle where the heterocycle is substituted with 1, 2,

3, or 4 substituents independently selected from

(=X),

alkanoyl where the alkyl part is one to fifteen carbons,

555

alkanoyloxy where the alkyl part is one to fifteen  
carbons,

alkoxy of one to fifteen carbons,

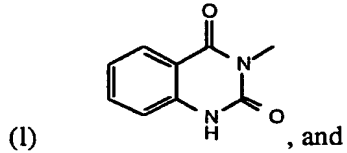
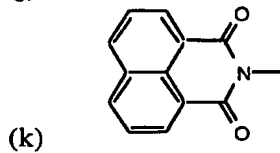
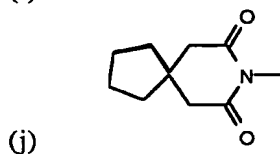
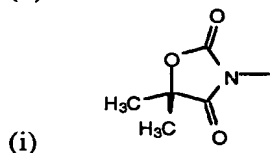
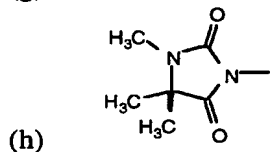
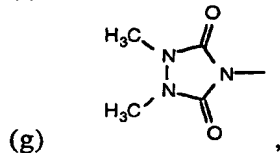
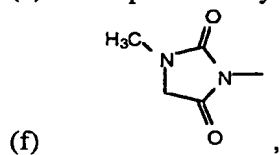
alkoxy of one to fifteen carbons substituted with 1, 2, 3,

- 560 4, or 5 substituents selected from the group  
consisting of halo,  
thioalkoxy of one to fifteen carbons,  
perfluoroalkyl of one to fifteen carbons,  
perfluoroalkoxy of one to fifteen carbons,  
-N<sub>3</sub>,  
565 -NO<sub>2</sub>,  
-CN,  
-OH,  
provided that no two -OH groups are attached to the  
same carbon,  
570 -OG,  
cycloalkyl of three to fifteen carbons,  
halo,  
-CO<sub>2</sub>R<sub>6</sub>,  
-L<sub>1</sub>NR<sub>7</sub>R<sub>8</sub>,  
575 -L<sub>2</sub>R<sub>9</sub>,
- (e) cycloalkyl of three to twelve carbons,  
(f) cycloalkenyl of four to twelve carbons,  
provided that a carbon of a carbon-carbon double bond is not attached  
directly to the C(=O) group
- 580 where (e) and (f) can be optionally substituted with 1, 2, 3, 4, or 5 substituents  
independently selected from
- (i) alkyl of one to fifteen carbons,  
(ii) aryl,  
(iii) alkoxy of one to fifteen carbons,  
585 (iv) thioalkoxy of one to fifteen carbons,  
(v) halo,  
(vi) -OH,  
provided that no two -OH groups are attached to the same  
carbon,  
590 (vii) heterocycle, and  
(viii) heterocycle substituted with 1, 2, 3, 4, or 5 substituents  
independently selected from

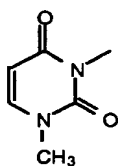
- alkyl of one to fifteen carbons,  
 perfluoroalkyl of one to fifteen carbons,  
 595 alkoxy of one to fifteen carbons,  
 thioalkoxy of one to fifteen carbons,  
 halo,  
 -NO<sub>2</sub>, and  
 -N<sub>3</sub>,
- 600 (g) heterocycle, and  
 (h) heterocycle substituted with 1, 2, 3, or 4 substituents independently  
 selected from
- (i) (=X),  
 (ii) alkanoyl where the alkyl part is one to fifteen carbons,  
 605 (iii) alkanoyloxy where the alkyl part is one to fifteen  
 carbons,  
 (iv) alkoxy of one to fifteen carbons,  
 (v) alkoxy of one to fifteen carbons substituted with 1, 2, 3,  
 4, or 5 substituents selected from the group  
 610 consisting of halo,  
 (vi) thioalkoxy of one to fifteen carbons,  
 (vii) perfluoroalkyl of one to fifteen carbons,  
 (viii) perfluoroalkoxy of one to fifteen carbons,  
 (ix) -N<sub>3</sub>,  
 615 (x) -NO<sub>2</sub>,  
 (xi) -CN,  
 (xii) -OH,  
 provided that no two -OH groups are attached to the  
 same carbon,
- 620 (xiii) -OG,  
 (xiv) cycloalkyl of three to fifteen carbons,  
 (xv) halo,  
 (xvi) -CO<sub>2</sub>R<sub>6</sub>,  
 (xvii) -L<sub>1</sub>NR<sub>7</sub>R<sub>8</sub>,  
 625 (xviii) -L<sub>2</sub>R<sub>9</sub>,
- provided that at least one of R<sub>13</sub> and R<sub>14</sub> is other than hydrogen, or

R<sub>13</sub> and R<sub>14</sub> together with the nitrogen to which they are attached form a ring selected from

- (a) succinimidyl,  
(b) maleimidyl,  
(c) glutarimidyl,  
(d) phthalimidyl,  
(e) naphthalimidyl,



- 10 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-cyclohexene-1-carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-methylcyclopropanecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-(3,5-dichlorophenoxy)-2-furancarboxamide,  
15 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-methyl-2-cyclohexene-1-carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-cyclopentene-1-carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-methoxycyclohexanecarboxamide,  
20 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-butyramide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-furancarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-methyl-3-nitrobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-hydroxycyclopropanecarboxamide,  
25 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]cycloheptanecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-benzofurancarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-fluoro-1H-indole-2-carboxamide,  
30 (E)-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-(2-chlorophenyl)-2-propenamide,  
2-benzoyl-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide,  
3a(S)-(3 $\alpha$ ,4 $\beta$ ,6 $\alpha$ )-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]hexahydro-2-oxo-1H-thieno[3,4-d]imidazole-4-pentanamide,  
35 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-iodobenzamide,  
exo-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]bicyclo[2.2.1]hept-5-ene-2-carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-methylcyclohexanecarboxamide,  
40 (R)-phenylmethyl [1-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]carbonyl]propyl]carbamate,



(m)

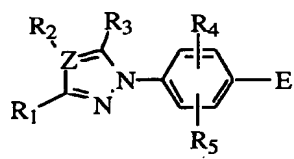
where (a)-(m) can be optionally substituted with 1, 2, 3, 4, or 5 substituents selected from

halo and

-L<sub>2</sub>R<sub>9</sub>.

645

2. A compound according to Claim 1 of Formula



or a pharmaceutically acceptable salt or prodrug thereof, where

- 5 Z is carbon, R<sub>2</sub> is hydrogen, and R<sub>1</sub>, R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub>, and E are defined above.

3. A compound according to Claim 2 where R<sub>1</sub> is perfluoroalkyl of one to fifteen carbons and R<sub>4</sub> and R<sub>5</sub> are hydrogen.

4. A compound according to Claim 3 where L<sub>3</sub> is -N(R<sub>7</sub>)C(X)-, R<sub>7</sub> is hydrogen, and W is O.

5. A compound according to Claim 4 selected from

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-cyclopropanecarboxamide,

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,2,3,3-

tetramethylcyclopropanecarboxamide,

- 5 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,2-dichloro-1-methylcyclopropanecarboxamide,

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-oxo-6-pentyl-2H-pyran-3-carboxamide,

- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-cyclohexene-1-carboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-methylcyclopropane-carboxamide,
- 45 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-methyl-2-thiophene-carboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-(1H-pyrrol-1-yl)benzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-7-methoxy-2-benzofuran-carboxamide,
- 50 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-(hydroxymethyl)benzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-cyanoacetamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-cyclohexane-1-carboxamide,
- 55 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-methylcyclohexane-carboxamide,
- (R)-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]- $\alpha$ -methoxy- $\alpha$ -(trifluoromethyl)benzeneacetamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]heptanamide,
- 60 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-phenoxybenzamide,
- 3-Amino-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide,
- 4-Amino-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide,
- 4-Azido-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-2-thiopheneacetamide,
- 65 N-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-tricyclo[3.3.1.1<sup>3,7</sup>]-decanecarboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N<sup>2</sup>-[(1,1-dimethylethoxy)-carbonyl]-L-asparagine, phenylmethyl ester,
- 1,1-dimethylethyl [7-[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]-
- 70 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-(methylthio)propanamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-naphthylenecarboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-cyanobenzamide,
- (trans)-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-phenyl-cyclopropanecarboxamide,
- 75 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-iodobenzamide,



- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-chloropropanamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-methoxybenzamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-ethylhexanamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-hydroxybenzamide,  
 80 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-(hexyloxy)benzamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-methylbenzamide,  
 2-(acetyloxy)-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4,6-trimethylbenzamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-methyl-5-nitro-1H-  
 85 pyrazole-4-carboxamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-bromobenzamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-(dimethylamino)benzamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-(dimethylamino)benzamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-(trifluoromethyl)benzamide,  
 90 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-fluorobenzamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chlorobenzamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-nitrobenzamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-methylbenzamide,  
 95 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3,4-dimethoxybenzamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]cyclopentanepropanamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-methylbenzamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-(trifluoromethyl)benzamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-methyl-2-butenamide,  
 100 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-hydroxybenzamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-hydroxybenzamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4-dimethyl-5-thiazole-  
 carboxamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-pyridinecarboxamide,  
 105 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-(hydroxymethyl)benzamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-(methylsulfonyl)benzamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-iodobenzamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-heptylbenzamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-furancarboxamide,

- 110 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-fluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-methyl-1,2-benzene-  
dicarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-pyridinecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-chloro-2-nitrobenzamide,  
115 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-cinnolinecarboxamide,  
4-acetyl-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide,  
1,1-dimethylethyl 4-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-  
amino]carbonyl]-1-piperidinecarboxylate,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-pyridinecarboxamide,  
120 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-(diethylamino)benzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]cyclopentanecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]cyclohexanecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-piperidinecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-(methylsulfonyl)benzamide,  
125 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-(trifluoromethyl)benzamide,  
methyl 3-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]-  
carbonyl]benzoate,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-chlorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-thiophenecarboxamide,  
130 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1,4-benzenedicarboxamide ,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3,5-dinitrobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4-difluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-nitrobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-cyanobenzamide,  
135 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1,3-benzenedicarboxamide ,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-nitrobenzamide,  
3-(aminosulfonyl)-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide,  
methyl 4-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]-  
carbonyl]benzoate,  
140 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-methoxybenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-bromobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-methoxybenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-fluorobenzamide,

- 145 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-bromobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1,3-benzodioxole-5-  
carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,6-dichloro-3-  
pyridinecarboxamide,  
150 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-3-  
pyridinecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-6-methyl-3-,  
pyridinecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-fluoro-γ-  
oxobenzenebutanamide,  
155 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1,2,3,4-tetrahydro-2-  
naphthalenecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-(4-chlorophenoxy)-2-  
methylpropanamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]acetamide,  
160 4-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]carbonyl]benzoic acid,  
phenylmethyl N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]-4-  
oxobutyl]carbamate,  
3-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]carbonyl]benzoic acid,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-bromo-2-thiophene-  
165 carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-methyl-2-thiophene-  
carboxamide,  
2-amino-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-fluoro-3-pyridine-  
170 carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-chloro-4-(methylsulfonyl)-  
2-thiophenecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1H-pyrrole-2-carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3,6-dichloro-2-pyridine-  
175 carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-(2-nitrophenoxy)acetamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1H-indole-2-acetamide,

- (E)-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-(2-thienyl)-2-propenamide,
- 180 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]pyrazinecarboxamide,  
1,1-dimethylethyl [[4-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]-4-oxobutyl]carbamate,  
1-acetyl-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-piperidine-carboxamide,
- 185 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]butanamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-chloro-2-methoxybenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]- $\alpha$ -methyl-4-(2-thienylcarbonyl)benzeneacetamide,
- 190 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]- $\alpha$ -methyl-4-(2-thienylcarbonyl)benzeneacetamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-methoxy-4-(methylthio)benzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-hydroxy-3-nitrobenzamide,
- 195 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3,4-dihydroxybenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-hydroxy-6-methoxybenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4-bis(trifluoromethyl)benzamide,
- 200 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-methyl-4-isoxazolecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-fluoro-3-(trifluoromethyl)benzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-fluoro-3-nitrobenzamide,
- 205 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-fluoro-2-(trifluoromethyl)benzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-bromo-3-nitrobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-4-fluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-4-(methylsulfonyl)-
- 210 benzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,5-dichlorobenzamide,

- 215 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,3-difluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-chloro-4-fluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,5-difluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-6-fluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-fluoro-6-(trifluoromethyl)-  
benzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-chloro-2-fluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-4-  
220 methoxybenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,6-dichloro-3-  
nitrobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-bromo-2-chlorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3,4-difluorobenzamide,  
225 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-bromo-5-  
methoxybenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-chloro-2-  
hydroxybenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-bromo-4-  
230 methoxybenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-bromo-4-  
hydroxybenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-4,5-  
difluorobenzamide,  
235 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-chloro-2,5-  
difluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,3,4-trifluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3,4,5-trifluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4,5-trifluorobenzamide,  
240 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4,6-trifluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,6-difluoro-3-  
nitrobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,3,5-trifluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4-dichloro-6-  
245 fluorobenzamide,

- N-4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl-2,4-dichloro-3,5-dinitrobenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,3,5,6-tetrafluorobenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,3,4,5-tetrafluorobenzamide,
- 250 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-bromo-2,3,5,6-tetrafluorobenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-methyl-2-nitrobenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-thiophene-carboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-isoxazolecarboxamide,
- 255 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]tetrahydro-2-furancarboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-pyrrolidinecarboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]tetrahydro-3-furancarboxamide,
- 260 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1,2,3-thiadiazole-5-carboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-4-pyridine-carboxamide,
- 1,1-dimethylethyl 2-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-amino]carbonyl]-1-pyrrolidinecarboxylate,
- 265 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-nitro-2-furancarboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-methyl-1H-pyrrole-2-carboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-6-chloro-3-pyridine-carboxamide,
- 270 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-bromo-2-furancarboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-methyl-2-furancarboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-chloro-2-thiophene-carboxamide,
- 275 (S)-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]tetrahydro-5-oxo-2-furancarboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-oxo-2-pyrrolidine-carboxamide,

- 280 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-bromo-3-pyridinecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-nitro-3-thiophene-carboxamide,  
1,1-dimethylethyl 4-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-  
285 amino]carbonyl]-3-thiazolidinecarboxylate,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-methoxy-3-thiophene-carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,3-dibromo-5-thiophene-carboxamide,  
290 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-fluoro-4-pyridine-carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-methyl-1H-pyrazole-4-carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-chloro-4-methoxy-3-  
295 thiophenecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5,6-dichloro-3-pyridine-carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,6-dichloro-4-pyridine-carboxamide,  
300 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,5-dichloro-3-pyridine-carboxamide,  
3-amino-N-(4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,  
N-(4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-3-chloro-5-methoxyisonicotinamide,  
305 4-(aminomethyl)-N-(4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-chlorobenzamide,  
N-(4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-methylacrylamide,  
N-(4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-4-chloro-2-fluorobenzamide,  
N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluorobenzamide,  
310 2-fluoro-N-(4-(5-(2-furyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)benzamide,  
N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-4-methyl-1,2,3-thiadiazole-5-carboxamide,  
N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,

- 315 N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,  
N-(4-(5-acetyl-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluorobenzamide,  
N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluoronicotinamide,  
N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2,3,5-trifluorobenzamide,  
2-fluoro-N-(4-(5-(2-thienyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)benzamide,  
2-fluoro-N-(4-(5-(methylsulfanyl)-3-(trifluoromethyl)-1H-pyrazol-1-  
320 yl)phenyl)benzamide,  
2-fluoro-N-(4-(5-(3-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-1-  
yl)phenyl)benzamide,  
3-fluoro-N-(4-(5-(2-thienyl)-3-(trifluoromethyl)-1H-pyrazol-1-  
yl)phenyl)isonicotinamide,  
325 N-(4-(5-methoxy-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,  
2-fluoro-N-(4-(5-methoxy-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)benzamide,  
N-(4-(5-methoxy-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-4-methyl-1,2,3-  
thiadiazole-5-carboxamide,  
N-(4-(5-acetyl-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluoronicotinamide,  
330 2-fluoro-N-(4-(5-(methylsulfanyl)-3-(trifluoromethyl)-1H-pyrazol-1-  
yl)phenyl)nicotinamide,  
2-fluoro-N-(4-(5-methoxy-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)nicotinamide,  
N-(4-(5-ethoxy-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluoronicotinamide,  
3-fluoro-N-(4-(5-(methylsulfanyl)-3-(trifluoromethyl)-1H-pyrazol-1-  
335 yl)phenyl)isonicotinamide,  
3-fluoro-N-(4-(5-methoxy-3-(trifluoromethyl)-1H-pyrazol-1-  
yl)phenyl)isonicotinamide,  
N-(4-(5-(difluoromethoxy)-3-(trifluoromethyl)-1H-pyrazol-1-  
yl)phenyl)isonicotinamide,  
340 N-(4-(5-(difluoromethoxy)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-4-methyl-  
1,2,3-thiadiazole-5-carboxamide,  
N-(4-(5-(difluoromethoxy)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-  
fluoronicotinamide,  
N-(4-(5-chloro-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluoronicotinamide,  
345 2-fluoro-N-(4-(5-nitro-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)benzamide,  
N-(4-(5-(difluoromethoxy)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-3-  
fluoroisonicotinamide,



N-(4-(5-chloro-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,  
 N-(4-(5-bromo-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,  
 350 3-fluoro-N-(4-(5-nitro-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,  
 N-(4-(5-bromo-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-4-methyl-1,2,3-thiadiazole-  
 5-carboxamide,  
 N-(4-(5-chloro-3-(trifluoromethyl)-1H-1,2,4-triazol-1-yl)phenyl)-3-  
 fluoroisonicotinamide,  
 355 3-fluoro-N-(4-(5-(1-methyl-1H-pyrrol-3-yl)-3-(trifluoromethyl)-1H-pyrazol-1-  
 yl)phenyl)isonicotinamide,  
 3-chloro-N-(4-(5-chloro-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,  
 N-(4-(5-bromo-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2,3-difluorobenzamide,  
 N-(4-(5-bromo-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-3-chloroisonicotinamide,  
 360 2-chloro-N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)benzamide,  
 3-chloro-N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,  
 N-(4-(5-(difluoromethoxy)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-  
 fluorobenzamide,  
 2-chloro-N-(4-(5-(difluoromethoxy)-3-(trifluoromethyl)-1H-pyrazol-1-  
 365 yl)phenyl)benzamide,  
 and  
 N-(4-(5-(difluoromethoxy)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2,3-  
 difluorobenzamide.

6. A compound according to Claim 3 where  $L_3$  is  $-N(R_7)C(X)-$ ,  $R_7$  is alkyl of one to fifteen carbons, and W is O.

7. A compound according to Claim 6 selected from  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-N-methylbenzamide  
 and

5 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-4-nitro-N-methyl-  
 benzamide.

8. A compound according to Claim 3 where  $L_3$  is  $-N(R_7)C(O)N(R_8)-$  and  $R_7$  and  $R_8$  are hydrogen.

9. A compound according to Claim 8 selected from  
ethyl 3-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-amino]carbonyl]-  
amino]benzoate,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(3-cyanophenyl)urea,  
5 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(3-nitrophenyl)urea,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(4-fluorophenyl)urea,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-[4-(trifluoromethyl)-  
phenyl]urea,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(3,5-dimethylphenyl)urea,  
10 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-phenylurea,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(3-chloro-2-methyl-  
phenyl)urea,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-[4-(butyloxyphenyl)urea,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(2-methyl-3-nitro-  
15 phenyl)urea,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(2-chloro-4-nitro-  
phenyl)urea,  
N-(4-acetylphenyl)-N'-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-phenyl]urea,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(4-methyl-2-nitro-  
20 phenyl)urea,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(4-bromo-2,6-dimethyl-  
phenyl)urea,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-heptylurea,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(4-chloro-2-nitro-  
25 phenyl)urea,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-2-methyl-5-nitro-  
phenyl)urea,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(4-bromo-2-methyl-  
phenyl)urea,  
30 and  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(4-chloro-3-nitro-  
phenyl)urea.

10. A compound according to Claim 3 where  $L_3$  is  $-NR_7S(O)_t-$ ,  $t$  is 2, and

R<sub>7</sub> is hydrogen.

11. A compound according to Claim 10 that is

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3,5-difluorobenzene-sulfonamide.

12. A compound according to Claim 3 where L<sub>3</sub> is -C(X)N(R<sub>7</sub>)-, X is O, and R<sub>7</sub> is hydrogen.

13. A compound according to Claim 12 selected from

4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(4-fluorophenyl)benzamide,  
4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(2-chlorophenyl)benzamide,  
4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(3-cyanophenyl)benzamide,  
5 4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(2,4-difluorophenyl)benzamide,  
4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(2-cyanophenyl)benzamide,  
4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(2-nitrophenyl)benzamide,  
4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(2,6-difluorophenyl)benzamide,  
4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(2-bromophenyl)benzamide,  
10 4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(4-cyanophenyl)benzamide,  
4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(4-pyridinyl)benzamide,

and

N-[2-(aminocarbonyl)phenyl]-4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]benzamide.

14. A compound according to Claim 3 where L<sub>3</sub> is -NR<sub>7</sub>(CH<sub>2</sub>)<sub>m</sub>-, R<sub>7</sub> is hydrogen, and m is 1.

15. A compound according to Claim 14 selected from

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chlorobenzenemethanamine

and

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-fluorobenzenemethanamine.

5 16. A compound according to Claim 3 where L<sub>3</sub> is -(CH<sub>2</sub>)<sub>m</sub>NR<sub>7</sub>-, R<sub>7</sub> is hydrogen, and m is 1.

17. A compound according to Claim 16 selected from  
4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(4-fluorophenyl)benzenemethanamine,  
3-[4-[[[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]methyl]amino]benzonitrile,  
4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(2,4-difluorophenyl)benzene-  
5 methanamine,  
and  
3-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]methyl]amino]benzonitrile.
18. A compound according to Claim 3 where  $L_3$  is  $-C(H)=N-$ .
19. A compound according to Claim 18 that is  
(E)-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenylmethylene]-2,4-  
difluorobenzeneamine.
20. A compound according to Claim 3 where  $L_3$  is alkenylene of two to six carbons in the  
Z or E configuration.
21. A compound according to Claim 20 selected from  
(E)-3-[2-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]ethenyl]benzonitrile,  
(Z)-3-[2-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]ethenyl]benzonitrile,  
and  
5 (E)-1-[4-[2-(2-chlorophenyl)ethenyl]phenyl]-3,5-bis(trifluoromethyl)-1H-pyrazole.
22. A compound according to Claim 2 where  
Z is carbon,  $R_2$  is hydrogen, and  $R_1$ ,  $R_3$ , and E are defined above,  
and  
 $R_4$  and  $R_5$  are independently selected from  
5 (1) hydrogen,  
(2) alkyl of one to fifteen carbons,  
(3) alkoxy of one to fifteen carbons,  
(4) halo,  
(5) perfluoroalkyl of one to fifteen carbons,  
10 (6)  $-CO_2R_6$ ,  
(7) substituted heterocycle,

(8)  $-L_1NR_7R_8$ , and

(9)  $-CN$ .

23. A compound according to Claim 22 selected from

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-3-(trifluoromethyl)phenyl]-4-chloro-benzamide,

5 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-2-fluorophenyl]-2,4-difluoro-benzamide,

N-[2,4-bis[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4-difluorobenzamide, methyl 2-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-5-[(5-bromo-2-chlorobenzoyl)-amino]benzoate,

10 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-3-(trifluoromethyl)phenyl]-3,5-dimethyl-4-isoxazolecarboxamide,

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-3-(trifluoromethyl)phenyl]-4-methyl-1,2,3-thiadiazole-5-carboxamide,

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-3-chlorophenyl]-3,5-dimethyl-4-isoxazolecarboxamide,

15 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-2-(trifluoromethyl)phenyl]-3,5-dimethyl-4-isoxazolecarboxamide,

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-2-methylphenyl]-4-methyl-1,2,3-thiadiazole-5-carboxamide,

20 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-2-methoxyphenyl]-4-methyl-1,2,3-thiadiazole-5-carboxamide

methyl 2-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)-5-((2-fluorobenzoyl)amino)benzoate,

N-(3-amino-4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluorobenzamide, and

25 N-(4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)-3-cyanophenyl)-2-fluorobenzamide.

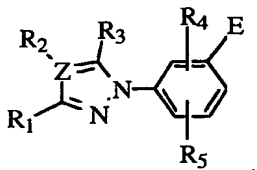
24. A compound according to Claim 2 where

$R_1$  is perfluoroalkyl of one to fifteen carbons and  $R_3$  is alkyl of one to fifteen carbons;

25. A compound according to Claim 24 selected from

4-chloro-N-[4-[5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide,

- 4-methyl-N-[4-[5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1,2,3-thiadiazole-5-carboxamide, and
- 5        3,5-dimethyl-N-[4-[5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-isoxazolecarboxamide.
26.    A compound according to Claim 2 where  $R_1$  is hydrogen and  $R_3$  is alkyl of one to fifteen carbons.
27.    A compound according to Claim 26 selected from  
 4-chloro-N-[4-(5-methyl-1H-pyrazol-1-yl)phenyl]benzamide,  
 4-methyl-N-[4-(5-methyl-1H-pyrazol-1-yl)phenyl]-1,2,3-thiadiazole-5-carboxamide,  
 and  
 5        3,5-dimethyl-N-[4-(5-methyl-1H-pyrazol-1-yl)phenyl]-4-isoxazolecarboxamide.
28.    A compound according to Claim 2 where  $R_1$  is perfluoroalkyl of one to fifteen carbons and  $R_3$  is hydrogen;
29.    A compound according to Claim 28 that is  
 3,5-dimethyl-N-[4-[3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-isoxazole-carboxamide.
30.    A compound according to Claim 2 where  $R_1$  is perfluoroalkyl of one to fifteen carbons and  $R_3$  is hydroxyl;
31.    A compound according to Claim 30 that is  
 N-[4-[5-hydroxy-3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-methyl-1,2,3-thiadiazole-5-carboxamide.
32.    A compound according to Claim 1 of formula



or a pharmaceutically acceptable salt or prodrug thereof, where

5 **R<sub>1</sub>**, **R<sub>2</sub>**, **R<sub>3</sub>**, **R<sub>4</sub>**, **R<sub>5</sub>**, **Z**, and **E** are defined above.

33. A compound according to Claim 32 selected from

N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-chlorobenzeneacetamide,

N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,3-dichlorobenzamide,

N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-5-nitrobenzamide,

5 N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-fluorobenzamide,

N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4-difluorobenzamide,

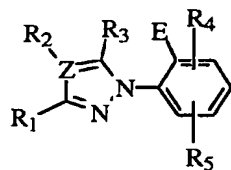
N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-cyanobenzamide,

N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,6-difluorobenzamide, and

N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-cyanobenzamide.

10

34. A compound according to Claim 1 of formula



or a pharmaceutically acceptable salt or prodrug thereof, where

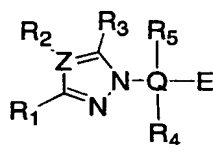
5 **R<sub>1</sub>**, **R<sub>2</sub>**, **R<sub>3</sub>**, **R<sub>4</sub>**, **R<sub>5</sub>**, **Z**, and **E** are defined above.

35. A compound according to Claim 34 selected from

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,6-difluorobenzamide and

N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-chlorobenzeneacetamide.

36. A compound according to Claim 1 of formula

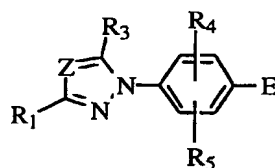


or a pharmaceutically acceptable salt or prodrug thereof, where

5 **Q** is heterocycle, and **R<sub>1</sub>**, **R<sub>2</sub>**, **R<sub>3</sub>**, **R<sub>4</sub>**, **R<sub>5</sub>**, **Z**, and **E** are defined above.

37. A compound according to Claim 36 selected from  
 N-[2-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-5-pyridinyl]-2-chlorobenzamide,  
 N-[2-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-5-pyridinyl]-3-cyanobenzamide,  
 N-[2-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-5-pyridinyl]-2-chloro-4,5-difluoro-  
 5 benzamide,  
 N-(6-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)-3-pyridinyl)-2-fluorobenzamide, and  
 N-(5-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)-2-pyridinyl)-2-fluorobenzamide.

38. A compound according to Claim 1 of formula



- or a pharmaceutically acceptable salt or prodrug thereof, where  
 5 Z is nitrogen, and R<sub>1</sub>, R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub>, and E are defined above.

39. A compound according to Claim 38 selected from  
 3,5-dimethyl-N-[4-(3,5-dimethyl-1H-1,2,4-triazol-1-yl)phenyl]-4-  
 isoxazolecarboxamide and  
 N-[4-(3,5-dimethyl-1H-1,2,4-triazol-1-yl)phenyl]-4-methyl-1,2,3-thiadiazole-5-  
 5 carboxamide.

40. A compound according to Claim 2 where R<sub>1</sub> is -L<sub>2</sub>-heterocycle, and the heterocycle  
 can be optionally substituted.

41. A compound according to Claim 40 selected from the group consisting of  
 3-fluoro-N-(4-(3-(4-pyridinyl)-5-(trifluoromethyl)-1H-pyrazol-1-  
 yl)phenyl)isonicotinamide,  
 N-(4-(5-(difluoromethyl)-3-(3-pyridinyl)-1H-pyrazol-1-yl)phenyl)-3-  
 5 fluoroisonicotinamide,  
 N-(4-(5-cyano-3-(2-pyridinyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,



- N-(4-(5-cyano-3-(3-pyridinyl)-1H-pyrazol-1-yl)phenyl)-4-methyl-1,2,3-thiadiazole-5-carboxamide,  
3-fluoro-N-(4-(5-nitro-3-(3-pyridinyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,  
10 4-methyl-N-(4-(5-nitro-3-(3-pyridinyl)-1H-pyrazol-1-yl)phenyl)-1,2,3-thiadiazole-5-carboxamide,  
N-(4-(5-cyano-3-(1,3-thiazol-2-yl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,  
N-(4-(3-(5-bromo-3-pyridinyl)-5-(difluoromethoxy)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,  
15 N-(4-(5-cyano-3-(1,3-thiazol-2-yl)-1H-pyrazol-1-yl)phenyl)-4-methyl-1,2,3-thiadiazole-5-carboxamide,  
N-(4-(5-cyano-3-(1,3-thiazol-2-yl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,  
4-methyl-N-(4-(3-(1,3-thiazol-2-yl)-5-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-1,2,3-thiadiazole-5-carboxamide,  
20 N-(4-(3-(2,4-dimethyl-1,3-thiazol-5-yl)-5-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,  
3-fluoro-N-(4-(3-tetrahydro-2-furanyl-5-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,  
N-(4-(5-chloro-3-(1,3-thiazol-2-yl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,  
25 N-(4-(5-chloro-3-(3-furyl)-1H-pyrazol-1-yl)phenyl)-4-methyl-1,2,3-thiadiazole-5-carboxamide,  
N-(4-(5-chloro-3-(3-furyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,  
N-(4-(5-cyano-3-tetrahydro-2-furanyl-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,  
30 N-(4-(5-(difluoromethoxy)-3-(1-methyl-1H-pyrrol-3-yl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,  
N-(4-(5-(difluoromethoxy)-3-(3-furyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide, and  
N-(4-(5-(difluoromethoxy)-3-(1-methyl-1H-pyrrol-2-yl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide.  
35

42. A compound selected from  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]cyclopropanecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,2,3,3-  
tetramethylcyclopropane-carboxamide,  
5 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,2-dichloro-1-  
methylcyclopropanecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-oxo-6-pentyl-2H-pyran-  
3-carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3,5-  
10 difluorobenzenesulfonamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-cyclohexene-1-  
carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-  
methylcyclopropanecarboxamide,  
15 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-(3,5-dichlorophenoxy)-  
2-furancarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-methyl-2-cyclohexene-  
1-carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-cyclopentene-1-  
20 carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-methoxycyclohexane-  
carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-butyramide,  
ethyl 3-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]carbonyl]-  
25 amino]benzoate,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-furancarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-methyl-3-  
nitrobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(3-cyanophenyl)urea,  
30 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-  
hydroxycyclopropanecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]cycloheptanecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-benzofurancarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-fluoro-1H-indole-2-  
35 carboxamide,  
(E)-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-(2-chlorophenyl)-2-  
propenamide,

- 2-benzoyl-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide,  
 3a(S)-(3 $\alpha$ ,4 $\beta$ ,6 $\alpha$ )-v-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]hexahydro-2-oxo-1H-thieno[3,4-d]imidazole-4-pentanamide,  
 40 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-iodobenzamide,  
 exo-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]bicyclo[2.2.1]hept-5-ene-2-carboxamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-methylcyclohexane-  
 45 carboxamide,  
 phenylmethyl [1-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]-carbonyl]propyl]carbamate,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-cyclohexene-1-carboxamide,  
 50 4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(4-fluorophenyl)benzamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(3-nitrophenyl)urea,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(4-fluorophenyl)urea,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-[4-(trifluoromethyl)-phenyl]urea,  
 55 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(3,5-dimethylphenyl)urea,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-methylcyclopropanecarboxamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-phenylurea,  
 60 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(3-chloro-2-methylphenyl)urea,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-[4-(butyloxyphenyl)urea,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(2-methyl-3-nitrophenyl)urea,  
 65 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(2-chloro-4-nitrophenyl)urea,  
 N-(4-acetylphenyl)-N'-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]urea,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(4-methyl-2-nitrophenyl)urea,  
 70 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-methyl-2-thiophene-carboxamide,  
 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(4-bromo-2,6-dimethylphenyl)urea,

- 75 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-(1H-pyrrol-1-yl)benzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-heptylurea,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(4-chloro-2-nitro-phenyl)urea,
- 80 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-7-methoxy-2-benzofurancarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-2-methyl-5-nitro-phenyl)urea,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-(hydroxymethyl)-
- 85 benzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-cyanoacetamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-cyclohexane-1-carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-
- 90 methylcyclohexanecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]- $\alpha$ -methoxy- $\alpha$ -(trifluoromethyl)benzeneacetamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]heptanamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-phenoxybenzamide,
- 95 3-amino-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide,  
4-amino-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide,  
4-azido-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-2-thiopheneacetamide,  
N-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-tricyclo[3.3.1.<sup>13,7</sup>]decane-
- 100 carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N<sup>2</sup>-[(1,1-dimethylethoxy)-carbonyl]-l-asparagine, phenylmethyl ester,  
1,1-dimethylethyl [7-[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]-7-oxoheptyl]carbamate,
- 105 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-(methylthio)propanamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-naphthylencarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-cyanobenzamide,
- 110 trans-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-phenylcyclopropane-carboxamide,

- 115 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-iodobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-chloropropanamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-methoxybenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-ethylhexanamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-hydroxybenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-(hexyloxy)benzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-methylbenzamide,  
2-(acetyloxy)-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide,  
120 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(4-bromo-2-  
methylphenyl)urea,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4,6-trimethylbenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-(4-chloro-3-  
nitrophenyl)urea,  
125 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-N-  
methylbenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-4-nitro-N-  
methylbenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-  
130 chlorobenzenemethanamine,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-methyl-5-nitro-1H-  
pyrazole-4-carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-  
fluorobenzenemethanamine,  
135 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-bromobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-  
(dimethylamino)benzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-  
(dimethylamino)benzamide,  
140 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-  
(trifluoromethyl)benzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-fluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chlorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide,  
145 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-nitrobenzamide,  
4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(4-  
fluorophenyl)benzenemethanamine,

- 3-[4-[[[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]methyl]amino]benzonitrile,
- 150 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-methylbenzamide,  
(E)-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenylmethylene]-2,4-difluoro-benzenamine,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3,4-dimethoxybenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]cyclopentanepropanamide,
- 155 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-methylbenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-(trifluoromethyl)benzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-methyl-2-butenamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-hydroxybenzamide,
- 160 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-hydroxybenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4-dimethyl-5-thiazolecarboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-pyridinecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-
- 165 (hydroxymethyl)benzamide,  
4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(2,4-difluorophenyl)benzenemethanamine,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-(methylsulfonyl)benzamide,
- 170 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-iodobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-heptylbenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-furancarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-fluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-N'-methyl-1,2-
- 175 benzenedicarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-pyridinecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-chloro-2-nitrobenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-cinnolinecarboxamide,
- 180 4-acetyl-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide,  
1,1-dimethylethyl 4-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-amino]carbonyl]-1-piperidinecarboxylate,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-pyridinecarboxamide,

- 185 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-(diethylamino)benzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]cyclopentanecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]cyclohexanecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-piperidinecarboxamide,  
190 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-(methylsulfonyl)benzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-(trifluoromethyl)benzamide,  
3-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]methyl]amino]benzonitrile,  
195 methyl 3-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]carbonyl]benzoate,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-chlorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-thiophenecarboxamide,  
(E)-3-[2-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]ethenyl]benzonitrile,  
200 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1,4-benzenedicarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3,5-dinitrobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4-difluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-nitrobenzamide,  
205 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-cyanobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1,3-benzenedicarboxamide,  
(Z)-3-[2-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]ethenyl]benzonitrile,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-nitrobenzamide,  
210 3-(aminosulfonyl)-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide,  
methyl 4-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]carbonyl]benzoate,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-methoxybenzamide,  
215 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-bromobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-methoxybenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-fluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-bromobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1,3-benzodioxole-5-  
220 carboxamide,

- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,6-dichloro-3-pyridinecarboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-3-pyridinecarboxamide,
- 225 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-6-methyl-3-pyridinecarboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-fluoro-γ-oxobenzenebutanamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1,2,3,4-tetrahydro-2-naphthalenecarboxamide,
- 230 (E)-1-[4-[2-(2-chlorophenyl)ethenyl]phenyl]-3,5-bis(trifluoromethyl)-1H-pyrazole,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-(4-chlorophenoxy)-2-methylpropanamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]acetamide,
- 235 4-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]carbonyl]benzoic acid,
- phenylmethyl N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]-4-oxobutyl]carbamate,
- 3-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]carbonyl]benzoic acid,
- 240 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,6-difluorobenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-bromo-2-thiophenecarboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-methyl-2-thiophenecarboxamide,
- 245 2-amino-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-fluoro-3-pyridinecarboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-chloro-4-(methylsulfonyl)-2-thiophenecarboxamide,
- 250 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1H-pyrrole-2-carboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3,6-dichloro-2-pyridinecarboxamide
- 255 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-(2-nitrophenoxy)acetamide,



- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-chlorobenzeneacetamide,
- 260 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1H-indole-2-acetamide,  
(E)-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-(2-thienyl)-2-propenamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]pyrazinecarboxamide,  
1,1-dimethylethyl [[4-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]-
- 265 4-oxobutyl]carbamate,  
1-acetyl-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-piperidinecarboxamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]butanamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-chloro-2-
- 270 methoxybenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]- $\alpha$ -methyl-4-(2-thienyl-carbonyl)benzeneacetamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]- $\alpha$ -methyl-4-(2-thienyl-carbonyl)benzeneacetamide,
- 275 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-methoxy-4-(methylthio)benzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-hydroxy-3-nitrobenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3,4-dihydroxybenzamide,
- 280 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-hydroxy-6-methoxybenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4-bis(trifluoromethyl)benzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-methyl-4-
- 285 isoxazolecarboxamide,  
4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(2-chlorophenyl)benzamide,  
4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(3-cyanophenyl)benzamide,  
4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(2,4-difluorophenyl)benzamide,  
4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(2-cyanophenyl)benzamide,
- 290 N-[4-[5-[3,5-dimethyl-1H-1,2,4-triazol-1-yl]-3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-isoxazolecarboxamide,  
4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(2-nitrophenyl)benzamide,  
4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(2,6-difluorophenyl)benzamide,  
4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(2-bromophenyl)benzamide,

- 295 4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(4-cyanophenyl)benzamide,  
4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-N-(4-pyridinyl)benzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-fluoro-3-(trifluoro-  
methyl)benzamide,  
N-[2-(aminocarbonyl)phenyl]-4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-  
300 yl]benzamide,  
N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-  
chlorobenzeneacetamide,  
N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,3-dichlorobenzamide,  
N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-5-  
305 nitrobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-fluoro-3-  
nitrobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-fluoro-3-  
nitrobenzamide,  
310 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-fluoro-2-  
(trifluoromethyl)-benzamide,  
N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-fluorobenzamide,  
N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4-difluorobenzamide,  
N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-cyanobenzamide,  
315 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-bromo-3-  
nitrobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-4-fluoro-  
benzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-4-  
320 (methylsulfonyl)-benzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,5-dichlorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,3-difluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-chloro-4-  
fluorobenzamide,  
325 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,5-difluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-6-  
fluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-fluoro-6-  
(trifluoromethyl)-benzamide,  
330 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-chloro-2-  
fluorobenzamide,

- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-4-methoxybenzamide,
- 335 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,6-dichloro-3-nitrobenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-bromo-2-chlorobenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3,4-difluorobenzamide,
- 340 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-bromo-5-methoxybenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-chloro-2-hydroxybenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-bromo-4-methoxybenzamide,
- 345 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-bromo-4-hydroxybenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-4,5-difluorobenzamide,
- N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,6-difluorobenzamide,
- 350 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-chloro-2,5-difluorobenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,3,4-trifluorobenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3,4,5-trifluorobenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4,5-trifluorobenzamide,
- 355 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4,6-trifluorobenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,6-difluoro-3-nitrobenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,3,5-trifluorobenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4-dichloro-6-fluorobenzamide,
- 360 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4-dichloro-3,5-dinitrobenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,3,5,6-tetrafluorobenzamide,
- 365 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,3,4,5-tetrafluorobenzamide,
- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-bromo-2,3,5,6-tetrafluorobenzamide,

- 370 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-methyl-2-nitrobenzamide,  
N-[3-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-cyanobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-thiophenecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-isoxazolecarboxamide,  
375 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]tetrahydro-2-furancarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-pyrrolidinecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]tetrahydro-3-furancarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1,2,3-thiadiazole-5-  
380 carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2-chloro-4-pyridinecarboxamide,  
1,1-dimethylethyl 2-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]carbonyl]-1-pyrrolidinecarboxylate,  
385 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-nitro-2-furancarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-methyl-1H-pyrrole-2-carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-6-chloro-3-  
390 pyridinecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-bromo-2-furancarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-methyl-2-furancarboxamide,  
395 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-chloro-2-thiophenecarboxamide,  
(S)-N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]tetrahydro-5-oxo-2-furan-carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-oxo-2-  
400 pyrrolidinecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-bromo-3-pyridinecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-nitro-3-thiophene-carboxamide,

- 405 1,1-dimethylethyl 4-[[[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]amino]-  
carbonyl]-3-thiazolidinecarboxylate,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-methoxy-3-  
thiophenecarboxamide,  
N-[2-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-5-pyridinyl]-2-chlorobenzamide,  
410 N-[2-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-5-pyridinyl]-3-cyanobenzamide,  
N-[2-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-5-pyridinyl]-2-chloro-4,5-  
difluorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,3-dibromo-5-  
thiophenecarboxamide,  
415 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-3-fluoro-4-pyridine--  
carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1-methyl-1H-pyrazole-4-  
carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5-chloro-4-methoxy-3-  
420 thiophenecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-5,6-dichloro-3-  
pyridinecarboxamide  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,6-dichloro-4-  
pyridinecarboxamide,  
425 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,5-dichloro-3-  
pyridinecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-3-(trifluoromethyl)phenyl]-4-  
chlorobenzamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-2-fluorophenyl]-2,4-  
430 difluorobenzamide,  
N-[2,4-bis[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-2,4-  
difluorobenzamide,  
methyl 2-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-5-[(5-bromo-2-  
chlorobenzoyl)amino]benzoate,  
435 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-3-(trifluoromethyl)phenyl]-3,5-  
dimethyl-4-isoxazolecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-3-(trifluoromethyl)phenyl]-4-  
methyl-1,2,3-thiadiazole-5-carboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-3-chlorophenyl]-3,5-dimethyl-4-  
440 isoxazolecarboxamide,

- N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-2-(trifluoromethyl)phenyl]-3,5-dimethyl-4-isoxazolecarboxamide,  
N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-2-methylphenyl]-4-methyl-1,2,3-thiadiazole-5-carboxamide,  
445 N-[4-[3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl]-2-methoxyphenyl]-4-methyl-1,2,3-thiadiazole-5-carboxamide,  
4-chloro-N-[4-[5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]benzamide,  
4-methyl-N-[4-[5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1,2,3-thiadiazole-5-carboxamide,  
450 3,5-dimethyl-N-[4-[5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-isoxazolecarboxamide,  
4-chloro-N-[4-(5-methyl-1H-pyrazol-1-yl)phenyl]benzamide,  
4-methyl-N-[4-(5-methyl-1H-pyrazol-1-yl)phenyl]-1,2,3-thiadiazole-5-carboxamide,  
455 3,5-dimethyl-N-[4-(5-methyl-1H-pyrazol-1-yl)phenyl]-4-isoxazolecarboxamide,  
3,5-dimethyl-N-[4-[3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-isoxazolecarboxamide,  
N-[4-[5-hydroxy-3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-methyl-1,2,3-thiadiazole-5-carboxamide,  
460 N-[4-[5-(3,5-dimethyl-1H-1,2,4-triazol-1-yl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-1,2,3-thiadiazole-5-carboxamide,  
3-amino-N-(4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,  
N-(4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-3-chloro-5-methoxyisonicotinamide,  
465 N-(6-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)-3-pyridinyl)-2-fluorobenzamide,  
methyl 2-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)-5-((2-fluorobenzoyl)amino)benzoate,  
4-(aminomethyl)-N-(4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-chlorobenzamide,  
470 N-(4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-methylacrylamide,  
N-(4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-4-chloro-2-fluorobenzamide,  
N-(5-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)-2-pyridinyl)-2-fluorobenzamide,  
N-(3-amino-4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluorobenzamide,  
475 fluorobenzamide, N-(4-(3,5-bis(trifluoromethyl)-1H-pyrazol-1-yl)-3-cyanophenyl)-2-fluorobenzamide,  
N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluorobenzamide,

- 2-fluoro-N-(4-(5-(2-furyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)benzamide,  
N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-4-methyl-1,2,3-  
480 thiadiazole-5-carboxamide,  
N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,  
N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-3-  
fluoroisonicotinamide,  
N-(4-(5-acetyl-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluorobenzamide,  
485 N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluoronicotinamide,  
N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2,3,5-  
trifluorobenzamide,  
2-fluoro-N-(4-(5-(2-thienyl)-3-(trifluoromethyl)-1H-pyrazol-1-  
yl)phenyl)benzamide,  
490 2-fluoro-N-(4-(5-(methylsulfanyl)-3-(trifluoromethyl)-1H-pyrazol-1-  
yl)phenyl)benzamide,  
2-fluoro-N-(4-(5-(3-pyridinyl)-3-(trifluoromethyl)-1H-pyrazol-1-  
yl)phenyl)benzamide,  
3-fluoro-N-(4-(5-(2-thienyl)-3-(trifluoromethyl)-1H-pyrazol-1-  
495 yl)phenyl)isonicotinamide,  
N-(4-(5-methoxy-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,  
2-fluoro-N-(4-(5-methoxy-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)benzamide,  
N-(4-(5-methoxy-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-4-methyl-1,2,3-  
thiadiazole-5-carboxamide,  
500 N-(4-(5-acetyl-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluoronicotinamide,  
2-fluoro-N-(4-(5-(methylsulfanyl)-3-(trifluoromethyl)-1H-pyrazol-1-  
yl)phenyl)nicotinamide,  
2-fluoro-N-(4-(5-methoxy-3-(trifluoromethyl)-1H-pyrazol-1-  
yl)phenyl)nicotinamide,  
505 N-(4-(5-ethoxy-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluoronicotinamide,  
3-fluoro-N-(4-(5-(methylsulfanyl)-3-(trifluoromethyl)-1H-pyrazol-1-  
yl)phenyl)isonicotinamide,  
3-fluoro-N-(4-(5-methoxy-3-(trifluoromethyl)-1H-pyrazol-1-  
yl)phenyl)isonicotinamide,  
510 N-(4-(5-(difluoromethoxy)-3-(trifluoromethyl)-1H-pyrazol-1-  
yl)phenyl)isonicotinamide,  
N-(4-(5-(difluoromethoxy)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-4-methyl-  
1,2,3-thiadiazole-5-carboxamide,

- 515 N-(4-(5-(difluoromethoxy)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluoronicotinamide,  
N-(4-(5-chloro-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluoronicotinamide,  
2-fluoro-N-(4-(5-nitro-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)benzamide,  
N-(4-(5-(difluoromethoxy)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,  
520 N-(4-(5-chloro-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,  
N-(4-(5-bromo-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,  
3-fluoro-N-(4-(5-nitro-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,  
N-(4-(5-bromo-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-4-methyl-1,2,3-thiadiazole-5-carboxamide,  
525 N-(4-(5-chloro-3-(trifluoromethyl)-1H-1,2,4-triazol-1-yl)phenyl)-3-fluoroisonicotinamide,  
3-fluoro-N-(4-(5-(1-methyl-1H-pyrrol-3-yl)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,  
3-chloro-N-(4-(5-chloro-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,  
530 N-(4-(5-bromo-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2,3-difluorobenzamide,  
N-(4-(5-bromo-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-3-chloroisonicotinamide,  
2-chloro-N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)benzamide,  
535 3-chloro-N-(4-(5-cyano-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,  
N-(4-(5-(difluoromethoxy)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2-fluorobenzamide,  
2-chloro-N-(4-(5-(difluoromethoxy)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)benzamide,  
540 N-(4-(5-(difluoromethoxy)-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-2,3-difluorobenzamide,  
3-fluoro-N-(4-(3-(4-pyridinyl)-5-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,  
545 N-(4-(5-(difluoromethyl)-3-(3-pyridinyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,  
N-(4-(5-cyano-3-(2-pyridinyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,  
N-(4-(5-cyano-3-(3-pyridinyl)-1H-pyrazol-1-yl)phenyl)-4-methyl-1,2,3-thiadiazole-5-carboxamide,  
550 3-fluoro-N-(4-(5-nitro-3-(3-pyridinyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,

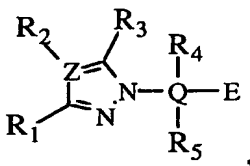


- 4-methyl-N-(4-(5-nitro-3-(3-pyridinyl)-1H-pyrazol-1-yl)phenyl)-1,2,3-thiadiazole-5-carboxamide,  
N-(4-(5-cyano-3-(1,3-thiazol-2-yl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,  
555 N-(4-(3-(5-bromo-3-pyridinyl)-5-(difluoromethoxy)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,  
N-(4-(5-cyano-3-(1,3-thiazol-2-yl)-1H-pyrazol-1-yl)phenyl)-4-methyl-1,2,3-thiadiazole-5-carboxamide,  
N-(4-(5-cyano-3-(1,3-thiazol-2-yl)-1H-pyrazol-1-yl)phenyl)-3-  
560 fluoroisonicotinamide,  
4-methyl-N-(4-(3-(1,3-thiazol-2-yl)-5-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-1,2,3-thiadiazole-5-carboxamide,  
N-(4-(3-(2,4-dimethyl-1,3-thiazol-5-yl)-5-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,  
565 3-fluoro-N-(4-(3-tetrahydro-2-furanyl-5-(trifluoromethyl)-1H-pyrazol-1-yl)phenyl)isonicotinamide,  
N-(4-(5-chloro-3-(1,3-thiazol-2-yl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,  
N-(4-(5-chloro-3-(3-furyl)-1H-pyrazol-1-yl)phenyl)-4-methyl-1,2,3-thiadiazole-5-  
570 carboxamide,  
N-(4-(5-chloro-3-(3-furyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,  
N-(4-(5-cyano-3-tetrahydro-2-furanyl-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide,  
N-(4-(5-(difluoromethoxy)-3-(1-methyl-1H-pyrrol-3-yl)-1H-pyrazol-1-yl)phenyl)-  
575 3-fluoroisonicotinamide,  
N-(4-(5-(difluoromethoxy)-3-(3-furyl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide, and  
N-(4-(5-(difluoromethoxy)-3-(1-methyl-1H-pyrrol-2-yl)-1H-pyrazol-1-yl)phenyl)-3-fluoroisonicotinamide.

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43. A method of inhibiting interleukin-2, interleukin-4, and interleukin-5 production in a mammal comprising administering a therapeutically effective amount of a compound of Claim 1.

44. A method of treating immunologically-mediated diseases in a mammal comprising administering a therapeutically effective amount of a compound of Formula I



I

or a pharmaceutically acceptable salt or prodrug thereof, where **R<sub>1</sub>** and **R<sub>3</sub>** are independently selected from

- (1) hydrogen,
- (2) aryl,
- (3) perfluoroalkyl of one to fifteen carbons,
- (4) halo,
- (5) -CN,
- (6) -NO<sub>2</sub>,
- (7) -OH,
- (8) -OG where G is a hydroxyl protecting group,
- (9) -CO<sub>2</sub>R<sub>6</sub> where R<sub>6</sub> is selected from
  - (a) hydrogen,
  - (b) cycloalkyl of three to twelve carbons,
  - (c) aryl,
  - (d) aryl substituted with 1, 2, 3, 4, or 5 substituents independently selected from
    - (i) alkyl of one to fifteen carbons,
    - (ii) alkoxy of one to fifteen carbons,
    - (iii) thioalkoxy of one to fifteen carbons,
    - (iv) halo,
    - (v) -NO<sub>2</sub>, and
    - (vi) -N<sub>3</sub>,

- 30 (e) a carboxy protecting group,  
 (f) alkyl of one to fifteen carbons,  
 (g) alkyl of one to fifteen carbons substituted with 1, 2, or 3, or 4  
 substituents independently selected from  
 (i) alkoxy of one to fifteen carbons,  
 (ii) thioalkoxy of one to fifteen carbons,  
 (iii) aryl,  
 35 (iv) aryl substituted with 1, 2, 3, 4, or 5 substituents  
 independently selected from  
 alkyl of one to fifteen carbons,  
 alkoxy of one to fifteen carbons,  
 thioalkoxy of one to fifteen carbons,  
 40 halo,  
 -NO<sub>2</sub>, and  
 -N<sub>3</sub>,  
 (v) cycloalkyl of three to twelve carbons, and  
 (vi) halo,  
 45 (h) alkenyl of three to fifteen carbons,  
 provided that a carbon of a carbon-carbon double bond is not  
 attached directly to oxygen,  
 (i) alkynyl of three to fifteen carbons,  
 provided that a carbon of a carbon-carbon triple bond is not  
 50 attached directly to oxygen, and  
 (j) cycloalkyl of three to twelve carbons,  
 (10) -L<sub>1</sub>NR<sub>7</sub>R<sub>8</sub> where L<sub>1</sub> is selected from  
 (a) a covalent bond,  
 (b) -X'C(X)- where X and X' are independently O or S,  
 55 (c) -C(X)-, and  
 (d) -NR<sub>6</sub>- and  
 R<sub>7</sub> and R<sub>8</sub> are independently selected from  
 (a) hydrogen,  
 (b) alkanoyl where the alkyl part is one to fifteen carbons,  
 60 (c) alkoxycarbonyl where the alkyl part is one to fifteen carbons,  
 (d) alkoxycarbonyl where the alkyl part is one to fifteen carbons and

is substituted with 1 or 2 substituents selected from the group consisting of aryl,

- 65 (e) cycloalkyl of three to twelve carbons,
- (f) aryl,
- (g) aryl substituted with 1, 2, 3, 4, or 5 substituents independently selected from
  - (i) alkyl of one to fifteen carbons,
  - (ii) alkoxy of one to fifteen carbons,
  - 70 (iii) thioalkoxy of one to fifteen carbons,
  - (iv) halo,
  - (v) -NO<sub>2</sub>, and
  - (vi) -N<sub>3</sub>,
- (h) -OR<sub>6</sub>,
- 75 provided that only one of R<sub>7</sub> or R<sub>8</sub> is -OR<sub>6</sub>,
- (i) a nitrogen protecting group,
- (j) alkyl of one to fifteen carbons,
- (k) alkyl of one to fifteen carbons substituted with 1, 2, or 3, or 4 substituents independently selected from
  - (i) alkoxy of one to fifteen carbons,
  - (ii) thioalkoxy of one to fifteen carbons,
  - (iii) aryl,
  - (iv) aryl substituted with 1, 2, 3, 4, or 5 substituents independently selected from
    - 80 alkyl of one to fifteen carbons,
    - 85 alkoxy of one to fifteen carbons,
    - thioalkoxy of one to fifteen carbons,
    - halo,
    - NO<sub>2</sub>, and
    - 90 -N<sub>3</sub>,
  - (v) cycloalkyl of three to fifteen carbons,
  - (vi) halo,
  - (vii) -CO<sub>2</sub>R<sub>6</sub>, and
  - (viii) -OH,
- 95 (l) alkenyl of three to fifteen carbons,

- provided that a carbon of a carbon-carbon double bond is not attached directly to nitrogen,
- (m) alkynyl of three to fifteen carbons,  
provided that a carbon of a carbon-carbon triple bond is not attached directly to nitrogen,
- (n) -SO<sub>2</sub>-alkyl, and
- (o) cycloalkyl of three to twelve carbons, or  
R<sub>7</sub> and R<sub>8</sub> together with the nitrogen atom to which they are attached form a ring selected from
- (i) aziridine,
  - (ii) azetidine,
  - (iii) pyrrolidine,
  - (iv) piperidine,
  - (v) piperazine,
  - (vi) morpholine,
  - (vii) thiomorpholine, and
  - (viii) thiomorpholine sulfone
- where (i)-(viii) can be optionally substituted with 1, 2, or 3 substituents selected from the group consisting of alkyl of one to fifteen carbons,
- (11) -L<sub>2</sub>R<sub>9</sub> where L<sub>2</sub> is selected from
- (a) -L<sub>1</sub>-,
  - (b) -O-, and
  - (c) -S(O)<sub>t</sub>- where t is 0, 1, or 2 and
- R<sub>9</sub> is selected from
- (a) cycloalkyl of three to twelve carbons,
  - (b) aryl
  - (c) aryl substituted with 1, 2, 3, 4, or 5 substituents independently selected from
- (i) alkyl of one to fifteen carbons,
  - (ii) alkoxy of one to fifteen carbons,
  - (iii) thioalkoxy of one to fifteen carbons,
  - (iv) halo,
  - (v) -NO<sub>2</sub>, and

- 130 (vi) -N<sub>3</sub>,
- (d) alkyl of one to fifteen carbons,
- (e) heterocycle,
- (f) alkenyl of two to fifteen carbons, and
- (e) alkyl of one to fifteen carbons substituted with 1, 2, or 3, or 4
- 135 substituents independently selected from
- (i) alkenyl of two to fifteen carbons,
- (ii) alkoxy of one to fifteen carbons,
- (iii) -CN,
- (iv) -CO<sub>2</sub>R<sub>6</sub>,
- 140 (v) -OH,
- provided that no two -OH groups are attached to the
- same carbon,
- (vi) thioalkoxy of one to fifteen carbons,
- (vii) alkynyl of two to fifteen carbons,
- 145 (viii) aryl,
- (ix) aryl substituted with 1, 2, 3, 4, or 5 substituents
- independently selected from
- alkyl of one to fifteen carbons,
- alkoxy of one to fifteen carbons,
- 150 thioalkoxy of one to fifteen carbons,
- halo,
- NO<sub>2</sub>, and
- N<sub>3</sub>,
- (x) cycloalkyl of three to twelve carbons, and
- 155 (xi) halo,
- (xii) -NR<sub>7</sub>R<sub>8</sub>,
- (xiii) heterocycle, and
- (xiv) heterocycle substituted with 1, 2, or 3, or 4 substituents
- independently selected from
- 160 alkyl of one to fifteen carbons,
- alkoxy of one to fifteen carbons,
- thioalkoxy of one to fifteen carbons,
- halo,

**-NO<sub>2</sub>, and**

$-N_3,$

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- (12) alkyl of one to fifteen carbons substituted with 1, 2, 3, 4, or 5 halo substituents,  
(13) alkyl of one to fifteen carbons,  
(14) alkenyl of two to fifteen carbons,  
(15) alkynyl of two to fifteen carbons

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where (13)-(15) can be optionally substituted with

- (a) (=X),
- (b) alkanoyloxy where the alkyl part is one to fifteen carbons,
- (c) alkoxy of one to fifteen carbons,
- (d) alkoxy of one to fifteen carbons substituted with 1, 2, 3, 4, or 5 substituents

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selected from the group consisting of halo,

- (e) thioalkoxy of one to fifteen carbons,
- (f) perfluoroalkoxy of one to fifteen carbons,
- (g) -N<sub>3</sub>,
- (h) -NO<sub>2</sub>,

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- (i) -CN,
- (j) -OH,
- (k) -OG
- (l) cycloalkyl of three to twelve carbons,

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- (n)  $-\text{CO}_2\text{R}_6$ ,  
 (o)  $-\text{L}_1\text{NR}_7\text{R}_8$ , and  
 (p)  $-\text{L}_2\text{R}_9$ ,  
 (16)  $-\text{L}_2$ -heterocycle, and  
 (17)  $-\text{L}_2$ -heterocycle where the heterocycle is substituted with 1, 2, 3 or 4

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substituents independently selected from

- (a) alkyl of one to fifteen carbons,  
(b) perfluoroalkyl of one to fifteen carbons,  
(c) alkoxy of one to fifteen carbons,  
(d) thioalkoxy of one to fifteen carbons,

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- (e) halo, and  
(f)  $\text{-NO}_2$ ,

- (18)  $-NR_XC(O)NR_YR_Z$  where  $R_X$ ,  $R_Y$  and  $R_Z$  are independently selected from

- (a) hydrogen and  
 (b) alkyl of one to fifteen carbons,
- 200 (19)  $-C(=NR_X)NR_YR_Z$ ,  
 (20)  $-NR_XC(=NR_X)NR_YR_Z$  where  $R_X$ ,  $R_Y$  and  $R_Z$  are defined previously and  $R_X$  is selected from  
 (a) hydrogen and  
 (b) alkyl of one to fifteen carbons,
- 205 (21)  $-NR_XC(O)OR_W$ , where  $R_W$  is selected from  
 (a) alkyl of one to fifteen carbons and  
 (b) alkenyl of three to fifteen carbons,  
 provided that a carbon of a carbon-carbon double bond is not attached directly to oxygen, and
- 210 (22)  $-OC(O)NR_7R_8$ ;

$Z$  is nitrogen or carbon;

$R_2$  is absent or is selected from

- 215 (1) hydrogen,  
 (2)  $-CO_2R_6$ ,  
 (3) alkyl of one to fifteen carbons,  
 (4)  $-C(O)R_6$  where  $R_6$  is selected from  
 (a) alkyl of one to fifteen carbons,
- 220 (b) aryl, and  
 (c) heterocycle,  
 (5)  $-C(O)NR_7R_8$  where  $R_7$  and  $R_8$  are independently selected from  
 (a) hydrogen,  
 (b) alkyl of one to fifteen carbons, or
- 225  $R_7$  and  $R_8$  together with the nitrogen to which they are attached form a ring selected from  
 (i) piperidine,  
 (ii) piperazine,  
 (iii) morpholine,
- 230 (iv) thiomorpholine, and  
 (v) thiomorpholine sulfone



- 235 (6) perfluoroalkyl of one to fifteen carbons,  
(7) cycloalkyl of three to ten carbons,  
(8) alkyl of one to fifteen carbons substituted with 1, 2, 3, 4, or 5 substituents  
selected from the group consisting of halo,  
(9) alkyl of one to fifteen carbons substituted with  
(a) -CN,  
(b) -OH,  
provided that no two -OH groups are attached to the same carbon,  
240 (c) (=X), and  
(d) -CO<sub>2</sub>R<sub>6</sub>, and  
(10) halogen;  
provided that when X is nitrogen, R<sub>2</sub> is absent;
- 245 Q is aryl or heterocycle where, when Q is phenyl, the phenyl is 2-, 3-, or 4- substituted  
by E relative to the position of attachment of the pyrazole or 1,2,4-triazole ring  
to the phenyl ring;

- R<sub>4</sub> and R<sub>5</sub> are independently selected from
- 250 (1) hydrogen,  
(2) alkyl of one to fifteen carbons,  
(3) alkyl of one to fifteen carbons substituted with 1, 2, 3, 4, or 5 halo substituents,  
(4) alkyl of one to fifteen carbons substituted with  
(a) -CN,  
255 (b) -CO<sub>2</sub>R<sub>6</sub>,  
(c) -L<sub>1</sub>NR<sub>7</sub>R<sub>8</sub>, and  
(d) -L<sub>2</sub>R<sub>9</sub>,  
(5) perfluoroalkyl of one to fifteen carbons,  
(6) -CN,  
260 (7) -CO<sub>2</sub>R<sub>6</sub>,  
(8) -L<sub>1</sub>NR<sub>7</sub>R<sub>8</sub>,  
(9) -L<sub>2</sub>R<sub>9</sub>,  
(10) alkoxy of one to fifteen carbons,  
(11) thioalkoxy of one to fifteen carbons,  
265 (12) halo,

(13)  $-C(=NR_6)NR_7R_8$ ,

(14)  $-NR_{12}(=NR_6)NR_7R_8$  where  $R_6$ ,  $R_7$ , and  $R_8$  are defined previously and  $R_{12}$  is selected from

- (a) hydrogen,
- (b) cycloalkyl of three to twelve carbons,
- (c) aryl,
- (d) alkyl of one to fifteen carbons, and
- (e) alkyl of one to fifteen carbons substituted with 1, 2, or 3, or 4 substituents independently selected from
  - (i) alkenyl of two to fifteen carbons,
  - (ii) alkoxy of one to fifteen carbons,
  - (iii) thioalkoxy of one to fifteen carbons,
  - (iv) alkynyl of two to fifteen carbons, and
  - (v) aryl,

(15)  $-L_2$ -heterocycle, and

(16)  $-L_2$ -heterocycle where the heterocycle is substituted with 1, 2, 3, or 4 substituents independently selected from

- (a) alkyl of one to fifteen carbons,
- (b) perfluoroalkyl of one to fifteen carbons,
- (c) alkoxy of one to fifteen carbons,
- (d) thioalkoxy of one to fifteen carbons,
- (e) halo,
- (f)  $-N_3$ , and
- (g)  $-NO_2$ ;

E is

(1)  $-L_3-B$  where  $L_3$  is selected from

- (a) a covalent bond,
- (b) alkenylene of two to six carbons in the Z or E configuration,
- (c) alkynylene of two to six carbons,
- (d)  $-C(X)-$ ,
- (e)  $-N=N-$ ,
- (f)  $-NR_7-$ ,
- (g)  $-N(R_7)C(O)N(R_8)-$ ,

- 300 (h)  $-N(R_7)SO_2N(R_8)-$ ,  
 (i)  $-X-$ ,  
 (j)  $-(CH_2)_mO-$ ,  
 (k)  $-O(CH_2)_m-$ ,  
 (l)  $-N(R_7)C(X)-$ ,  
 305 (m)  $-C(X)N(R_7)-$ ,  
 (n)  $-S(O)_t(CH_2)_m-$ ,  
 (o)  $-(CH_2)_mS(O)_t-$ ,  
 (p)  $-NR_7(CH_2)_m-$ ,  
 (q)  $-(CH_2)_mNR_7-$ ,  
 310 (r)  $-NR_7S(O)_t-$ ,  
 (s)  $-S(O)_tNR_7-$ ,  
 (t)  $-N=C(H)-$ ,  
 (u)  $-C(H)=N-$ ,  
 (v)  $-ON=CH-$ ,  
 315 (w)  $-CH=NO-$

where (g)-(w) are drawn with their left ends attached to Q,

- (x)  $-N(R_7)C(O)N(R_{10})(R_{11})-$  where  $R_{10}$  and  $R_{11}$  together with the nitrogen atom to which they are attached form a ring selected from  
 (i) morpholine,  
 320 (ii) thiomorpholine,  
 (iii) thiomorpholine sulfone, and  
 (iv) piperidine

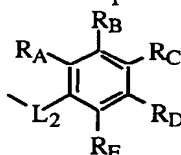
where (i)-(iv) are attached to Q through the nitrogen to which is attached  $R_7$  and to B through a carbon in the ring,

- 325 (y)  $-N(R_7)SO_2N(R_{10})(R_{11})-$ , and  
 (z)  $-N(R_7)C(O)N(R_{10})(R_{11})-$  and

B is selected from

- (a) alkyl of one to fifteen carbons,  
 (b) alkenyl of three to fifteen carbons in the E or Z configuration,  
 330 provided that a carbon of a carbon-carbon double bond is not directly attached to  $L_3$  when  $L_3$  is other than a covalent bond,  
 (c) alkynyl of three to fifteen carbons,  
 provided that a carbon of a carbon-carbon triple bond is not directly

attached to L<sub>3</sub> when L<sub>3</sub> is other than a covalent bond  
 where (a), (b) and (c), can be optionally substituted with 1, 2, 3, or 4  
 substituents independently selected from

- (i)  where L<sub>2</sub> is defined previously and R<sub>A</sub>, R<sub>B</sub>, R<sub>C</sub>, R<sub>D</sub>, and R<sub>E</sub> are independently selected from  
 hydrogen,  
 alkanoyl where the alkyl part is one to fifteen carbons,  
 alkanoyloxy where the alkyl part is one to fifteen  
 carbons,  
 alkoxy of one to fifteen carbons,  
 thioalkoxy of one to fifteen carbons,  
 alkoxy of one to fifteen carbons substituted with 1, 2, 3,  
 4, or 5 substituents selected from the group  
 consisting of halo ,  
 perfluoroalkyl of one to fifteen carbons,  
 perfluoroalkoxy of one to fifteen carbons,  
 -N<sub>3</sub>,  
 -NO<sub>2</sub>,  
 -CN,  
 -OH,  
 -OG,  
 cycloalkyl of three to fifteen carbons,  
 halo,  
 -CO<sub>2</sub>R<sub>6</sub>  
 -L<sub>1</sub>NR<sub>7</sub>R<sub>8</sub>  
 -L<sub>2</sub>R<sub>9</sub>  
 alkyl of one to fifteen carbons,  
 alkyl of one to fifteen carbons substituted with 1, 2, 3, 4,  
 or 5 substituents independently selected from  
 (=X),  
 alkanoyloxy where the alkyl part is one to fifteen

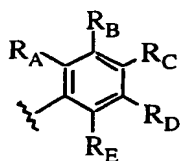
365 carbons,  
 alkoxy of one to fifteen carbons,  
 thioalkoxy of one to fifteen carbons,  
 alkoxy of one to fifteen carbons substituted with  
 1, 2, 3, 4, or 5 halo substituents,  
 370 perfluoroalkoxy of one to fifteen carbons,  
 -N<sub>3</sub>,  
 -NO<sub>2</sub>,  
 -CN,  
 -OH,  
 375 provided that no two -OH groups are attached to  
 the same carbon,  
 -OG,  
 cycloalkyl of three to fifteen carbons,  
 halo,  
 380 -CO<sub>2</sub>R<sub>6</sub>,  
 -L<sub>1</sub>NR<sub>7</sub>R<sub>8</sub>, and  
 -L<sub>2</sub>R<sub>9</sub>,  
 -L<sub>2</sub>-heterocycle, and  
 -L<sub>2</sub>-heterocycle where the heterocycle is substituted  
 385 with  
 1, 2, 3, or 4 substituents independently  
 selected from  
 alkyl of one to fifteen carbons,  
 perfluoroalkyl of one to fifteen carbons,  
 390 alkoxy of one to fifteen carbons,  
 thioalkoxy of one to fifteen carbons,  
 halo,  
 -NR<sub>X</sub>C(O)NR<sub>Y</sub>R<sub>Z</sub>,  
 -C(=NR<sub>X</sub>)R<sub>Y</sub>R<sub>Z</sub>,  
 395 -NO<sub>2</sub>, and  
 -N<sub>3</sub>,

(ii) (=X)

(iii) alkanoyloxy where the alkyl part is one to fifteen carbons,

- 400 (iv) alkoxy of one to fifteen carbons,  
 (v) alkoxy of one to fifteen carbons substituted with 1, 2, 3, 4, or 5  
 substituents selected from the group consisting of halo,  
 (vi) thioalkoxy of one to fifteen carbons,  
 (vii) perfluoroalkoxy of one to fifteen carbons,  
 (viii) -N<sub>3</sub>,  
 405 (ix) -NO<sub>2</sub>,  
 (x) -CN,  
 (xi) -OH,  
 provided that no two -OH groups are attached to the same  
 carbon,  
 410 (xii) -OG,  
 (xiii) cycloalkyl of three to fifteen carbons,  
 (xiv) halo,  
 (xv) -CO<sub>2</sub>R<sub>6</sub>,  
 (xvi) -L<sub>1</sub>NR<sub>7</sub>R<sub>8</sub>,  
 415 (xvii) perfluoroalkyl of one to fifteen carbons,  
 (xviii) -L<sub>2</sub>-heterocycle, and  
 (xix) -L<sub>2</sub>-heterocycle where the heterocycle is substituted with 1, 2,  
 3, or 4 substituents independently selected from  
 (=X),  
 420 alkanoyl where the alkyl part is one to fifteen carbons,  
 alkanoyloxy where the alkyl part is one to fifteen  
 carbons,  
 alkoxy of one to fifteen carbons,  
 alkoxy of one to fifteen carbons substituted with 1, 2, 3,  
 425 4, or 5 substituents selected from the group  
 consisting of halo ,  
 thioalkoxy of one to fifteen carbons,  
 perfluoroalkyl of one to fifteen carbons,  
 perfluoroalkoxy of one to fifteen carbons,  
 430 -N<sub>3</sub>,  
 -NO<sub>2</sub>,  
 -CN,

- 435                                   -OH,  
provided that no two -OH groups are attached to the  
  same carbon,
- OG,  
                                  cycloalkyl of three to fifteen carbons,  
                                  halo,  
                                  -CO<sub>2</sub>R<sub>6</sub>,  
440                                   -L<sub>1</sub>NR<sub>7</sub>R<sub>8</sub>, and  
                                  -L<sub>2</sub>R<sub>9</sub>,
- (d)    cycloalkyl of three to twelve carbons,  
(e)    cycloalkenyl of four to twelve carbons,  
provided that a carbon of a carbon-carbon-double bond is not attached  
445                                   directly to L<sub>3</sub> when L<sub>3</sub> is other than a covalent bond
- where (d) and (e) can be optionally substituted with 1, 2, 3, 4, or 5 substituents  
independently selected from
- (i)    alkyl of one to fifteen carbons,  
                                  (ii)   aryl,  
450                                   (iii)   alkoxy of one to fifteen carbons,  
                                  (iv)   thioalkoxy of one to fifteen carbons,  
                                  (v)    halo,  
                                  (vi)   -OH,  
provided that no two -OH groups are attached to the same  
455                                   carbon,
- (vii)   oxo,  
                                  (viii)   perfluoroalkyl,  
                                  (ix)    heterocycle, and  
                                  (x)    heterocycle substituted with 1, 2, 3, 4, or 5 substituents  
460                                   independently selected from  
                                  alkyl of one to fifteen carbons,  
                                  perfluoroalkyl of one to fifteen carbons,  
                                  alkoxy of one to fifteen carbons,  
                                  thioalkoxy of one to fifteen carbons,  
465                                   halo,  
                                  -NO<sub>2</sub>, and

-N<sub>3</sub>,

(f)

provided that when R<sub>1</sub> and R<sub>3</sub> are both perfluoroalkyl of one carbon, Z is carbon, R<sub>2</sub> is hydrogen, Q is phenyl that is 4-substituted by E relative to the position of attachment of the pyrazole ring to the phenyl group, R<sub>4</sub> and R<sub>5</sub> are hydrogen, E is -L<sub>3</sub>-B, L<sub>3</sub> is -N(R<sub>7</sub>)C(X)-, R<sub>7</sub> is hydrogen, X is oxygen, and R<sub>A</sub>, R<sub>B</sub>, R<sub>D</sub>, and R<sub>E</sub> are hydrogen, R<sub>C</sub> is other than chloro, and

- (g) heterocycle where the heterocycle can be optionally substituted with 1, 2, 3, or 4 substituents independently selected from
- (i) (=X),
  - (ii) alkanoyl where the alkyl part is one to fifteen carbons,
  - (iii) alkanoyloxy where the alkyl part is one to fifteen carbons,
  - (iv) alkoxy of one to fifteen carbons,
  - (v) alkoxy of one to fifteen carbons substituted with 1, 2, 3, 4, or 5 substituents selected from the group consisting of halo,
  - (vi) halo,
  - (vii) thioalkoxy of one to fifteen carbons,
  - (viii) perfluoroalkyl of one to fifteen carbons,
  - (ix) perfluoroalkoxy of one to fifteen carbons,
  - (x) -N<sub>3</sub>,
  - (xi) -NO<sub>2</sub>,
  - (xii) -CN,
  - (xiii) -OH,
- provided that no two -OH groups are attached to the same carbon,
- (xiv) -OG,
  - (xv) cycloalkyl of three to fifteen carbons,
  - (xvi) halo,

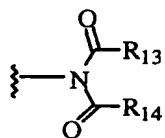


(xvii)  $-\text{CO}_2\text{R}_6$ ,

(xviii) alkyl optionally substituted with  $-\text{OH}$ ,

(xix)  $-\text{L}_1\text{NR}_7\text{R}_8$ , and

(xx)  $-\text{L}_2\text{R}_9$ , and



(2) where  $\text{R}_{13}$  and  $\text{R}_{14}$  are independently selected from

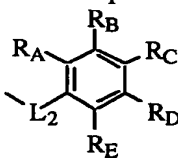
(a) hydrogen,

(b) alkyl of one to fifteen carbons,

(c) alkenyl of three to fifteen carbons in the E or Z configuration, provided that a carbon of a carbon-carbon double bond is not attached directly to the  $\text{C}(=\text{O})$  group,

(d) alkynyl of three to fifteen carbons, provided that a carbon-carbon triple bond is not directly attached to the  $\text{C}(=\text{O})$  group

where (b), (c), and (d) can be optionally substituted with 1, 2, 3, or 4 substituents independently selected from



(i)

(ii)  $(=\text{X})$ ,

(iii) alkanoyloxy where the alkyl part is one to fifteen carbons,

(iv) alkoxy of one to fifteen carbons,

(v) alkoxy of one to fifteen carbons substituted with 1, 2, 3, 4, or 5 substituents selected from the group consisting of halo,

(vi) thioalkoxy of one to fifteen carbons,

(vii) perfluoroalkoxy of one to fifteen carbons,

(viii)  $-\text{N}_3$ ,

(ix)  $-\text{NO}_2$ ,

(x)  $-\text{CN}$ ,

(xi)  $-\text{OH}$ ,

provided that no two  $-\text{OH}$  groups are attached to the same carbon,

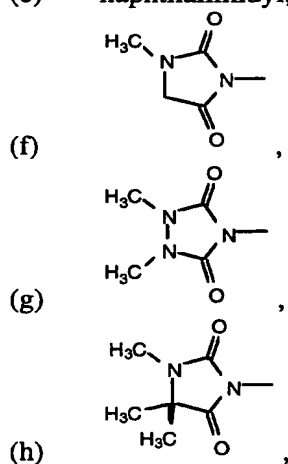
- (xii) -OG,  
 (xiii) cycloalkyl of three to fifteen carbons,  
 (xiv) halo,  
 (xv) -CO<sub>2</sub>R<sub>6</sub>,  
 530 (xvi) -L<sub>1</sub>NR<sub>7</sub>R<sub>8</sub>,  
 (xvii) perfluoroalkyl of one to fifteen carbons,  
 (xviii) -L<sub>2</sub>-heterocycle, and  
 (xix) -L<sub>2</sub>-heterocycle where the heterocycle is substituted with 1, 2,  
 3, or 4 substituents independently selected from  
 535 (=X),  
 alkanoyl where the alkyl part is one to fifteen carbons,  
 alkanoyloxy where the alkyl part is one to fifteen  
 carbons,  
 alkoxy of one to fifteen carbons,  
 540 alkoxy of one to fifteen carbons substituted with 1, 2, 3,  
 4, or 5 substituents selected from the group  
 consisting of halo,  
 thioalkoxy of one to fifteen carbons,  
 perfluoroalkyl of one to fifteen carbons,  
 545 perfluoroalkoxy of one to fifteen carbons,  
 -N<sub>3</sub>,  
 -NO<sub>2</sub>,  
 -CN,  
 -OH,  
 550 provided that no two -OH groups are attached to the  
 same carbon,  
 -OG,  
 cycloalkyl of three to fifteen carbons,  
 halo,  
 555 -CO<sub>2</sub>R<sub>6</sub>,  
 -L<sub>1</sub>NR<sub>7</sub>R<sub>8</sub>,  
 -L<sub>2</sub>R<sub>9</sub>,  
 (e) cycloalkyl of three to twelve carbons,  
 (f) cycloalkenyl of four to twelve carbons,

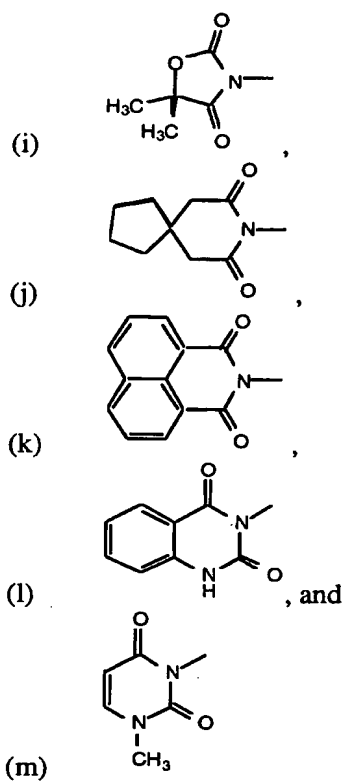
- 560 provided that a carbon of a carbon-carbon double bond is not attached  
directly to the C(=O) group  
where (e) and (f) can be optionally substituted with 1, 2, 3, 4, or 5 substituents  
independently selected from
- (i) alkyl of one to fifteen carbons,
  - 565 (ii) aryl,
  - (iii) alkoxy of one to fifteen carbons,
  - (iv) thioalkoxy of one to fifteen carbons,
  - (v) halo,
  - (vi) -OH,
  - 570 provided that no two -OH groups are attached to the same  
carbon,
  - (vii) heterocycle, and
  - (viii) heterocycle substituted with 1, 2, 3, 4, or 5 substituents  
independently selected from
  - 575 alkyl of one to fifteen carbons,  
perfluoroalkyl of one to fifteen carbons,  
alkoxy of one to fifteen carbons,  
thioalkoxy of one to fifteen carbons,  
halo,
  - 580 -NO<sub>2</sub>, and  
-N<sub>3</sub>,
  - (g) heterocycle, and
  - (h) heterocycle substituted with 1, 2, 3, or 4 substituents independently  
selected from
  - 585 (i) (=X),
  - (ii) alkanoyl where the alkyl part is one to fifteen carbons,
  - (iii) alkanoyloxy where the alkyl part is one to fifteen  
carbons,
  - (iv) alkoxy of one to fifteen carbons,
  - 590 (v) alkoxy of one to fifteen carbons substituted with 1, 2, 3,  
4, or 5 substituents selected from the group  
consisting of halo,
  - (vi) thioalkoxy of one to fifteen carbons,

- 595 (vii) perfluoroalkyl of one to fifteen carbons,  
 (viii) perfluoroalkoxy of one to fifteen carbons,  
 (ix)  $-N_3$ ,  
 (x)  $-NO_2$ ,  
 (xi)  $-CN$ ,  
 (xii)  $-OH$ ,  
 600 provided that no two  $-OH$  groups are attached to the  
 same carbon,  
 (xiii)  $-OG$ ,  
 (xiv) cycloalkyl of three to fifteen carbons,  
 (xv) halo,  
 605 (xvi)  $-CO_2R_6$ ,  
 (xvii)  $-L_1NR_7R_8$ ,  
 (xviii)  $-L_2R_9$ ,

provided that at least one of  $R_{13}$  and  $R_{14}$  is other than hydrogen, or  
 $R_{13}$  and  $R_{14}$  together with the nitrogen to which they are attached form a ring

- 610 selected from  
 (a) succinimidyl,  
 (b) maleimidyl,  
 (c) glutarimidyl,  
 (d) phthalimidyl,  
 615 (e) naphthalimidyl,





where (a)-(m) can be optionally substituted with 1, 2, 3, 4, or 5 substituents  
selected from  
halo and  
-L<sub>2</sub>R<sub>9</sub>.

# INTERNATIONAL SEARCH REPORT

i. national Application No

PCT/US 99/07766

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 C07D231/16 A61K31/475 A61K31/42 A61K31/425 A61K31/44  
A61K31/445 A61K31/415 C07D405/10 C07D403/10 C07D495/04  
C07D409/10 C07D417/10 C07D401/10 C07D413/10 C07D401/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 C07D A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	TSUJI, KIYOSHI ET AL: "Studies on anti-inflammatory agents. V. Synthesis and pharmacological properties of 3-(difluoromethyl)-1-(4-methoxyphenyl)-5-'4-(methylsulfinyl)phenyl!pyrazole and related compounds" CHEM. PHARM. BULL. (1997), 45(9), 1475-1481 , XP002112607 abstract page 1476 page 1477; tables 1,2 --- -/--	1,43,44

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

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"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

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"&" document member of the same patent family

Date of the actual completion of the international search

18 August 1999

Date of mailing of the international search report

03/09/1999

Name and mailing address of the ISA

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Authorized officer

Paisdor, B

# INTERNATIONAL SEARCH REPORT

national Application No

PCT/US 99/07766

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 C07D409/04 C07D401/14 C07D417/14 C07D405/14  
 //(C07D495/04,333:00,231:00)

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	TSUJI, KIYOSHI ET AL: "Studies on anti-inflammatory agents. IV. Synthesis and pharmacological properties of 1,5-diarylpyrazoles and related derivatives" CHEM. PHARM. BULL. (1997), 45(6), 987-995 , XP002112608 abstract page 988 - page 989 page 990 - page 991; tables 1-4 ---	1,43,44
X	W0 95 15316 A (G.D. SEARLE & CO., USA) 1994 abstract; claims 1,37 page 1 - page 3; examples ---	1,43,44
	--- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

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"O" document referring to an oral disclosure, use, exhibition or other means

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"Z" document member of the same patent family

Date of the actual completion of the international search

18 August 1999

Date of mailing of the international search report

Name and mailing address of the ISA

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Authorized officer

Paisdor, B

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US 99/07766

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 95 33751 A (SANOFI WINTHROP, INC., USA) 1995 abstract; claims 1,21,28 examples 4-10,12,20,24,25 ----	1,43,44
A	WO 95 15317 A (G.D. SEARLE & CO., USA) 1994 abstract; claims 1,15 page 35; example 1 ----	1,43,44
A	WO 92 01684 A (PFIZER INC., USA) 1991 abstract; claims page 38 - page 43; examples ----	1,43,44
A	US 5 585 357 A (DOLLE, ROLAND E. ET AL) 1996 abstract; claims 1,9,17; example 1 ----	1,43,44
A	EP 0 644 198 A (STERLING WINTHROP INC., USA) 1994 abstract; claims 2,15; example 1 ----	1,43,44
E	WO 99 23091 A (BOEHRINGER INGELHEIM PHARMACEUTICALS, INC., USA) 1998 abstract; claims page 51 - page 58; examples 2,4-43; table I ----	1,43,44
E	WO 99 19303 A (YAMANOUCHI PHARMACEUTICAL CO., LTD., JAPAN) 1998 abstract page 35 - page 41; tables 2-5 -----	1



# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 99/ 07766

## Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 43-44  
because they relate to subject matter not required to be searched by this Authority, namely:  
Remark: Although claims 43-44  
are directed to a method of treatment of the human/animal  
body, the search has been carried out and based on the alleged  
effects of the compound/composition.
2. ☒ Claims Nos.: not applicable  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such  
an extent that no meaningful International Search can be carried out, specifically:  
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all  
searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment  
of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report  
covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is  
restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: not applicable

In view of the extremely broad Markush claims, the search was executed with due regard to the PCT Search Guidelines (PCT/GL/2), C-111, paragraph 2.1, 2.3 read in conjunction with 3.7 and Rule 33.3 PCT, i.e. particular emphasis was put on the inventive concept, as illustrated by the examples and claims 2, 32, 34, 38 and 42.

The international search was, in so far as possible and reasonable, complete in that it covered the entire subject-matter to which the claims are directed.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 99/07766

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9515316 A	08-06-1995	US 5466823 A	14-11-1995
		US 5521207 A	28-05-1996
		AU 690609 B	30-04-1998
		AU 1171495 A	19-06-1995
		CA 2177576 A	08-06-1995
		CN 1141630 A	29-01-1997
		CZ 9601503 A	11-12-1996
		EP 0731795 A	18-09-1996
		EP 0924201 A	23-06-1999
		EP 0922697 A	16-06-1999
		EP 0923933 A	23-06-1999
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